



# FLEETWOOD MACHINE PRODUCTS, Inc.

Precision Machine Products

Precision Production Grinding

Complete Assemblies

SFUND RECORDS CTR

2166-03263

11447 VANOWEN STREET  
NORTH HOLLYWOOD, CALIF. 91605  
( 2 1 3 ) 8 7 7 - 3 3 0 8  
( 8 1 8 ) 9 8 3 - 1 0 7 7  
F A X ( 8 1 8 ) 9 8 2 - 0 9 3 2

June 9, 1992

Mr. Chris Stubbs  
South Coast Groundwater Section (H-6-4)  
United States Environmental  
Protection Agency  
Region 9  
75 Hawthorne Street  
San Francisco, CA 94105

Re: Fleetwood Machine Products, Inc.  
File No: 111.0435 - Supplemental Response

RECEIVED  
JAN 08 20  
JUL 6 92  
PRO ENVIRONMENTAL  
MANAGEMENT, INC.

Dear Mr. Stubbs:

Enclosed pursuant to Title 42, United States Code Section 9604(e) is a supplemental response to the Information Request by the EPA from Fleetwood Machine Products.

This supplementary response is made to question No. 7 of the Information Request originally submitted to Fleetwood Machine on December 16, 1991, which requests all available environmental data on the subject property. The following three documents are submitted.

1. Environmental investigation dated March 19, 1992, from Franklin Environmental performed by Armen Minnassian, registered geologist. This report was prepared in response to the Regional Water Quality Board (RWQCB) approved workplan, dated November 18, 1991.

2. Carberry and Associates report dated June 1991, performed by Terrence Carberry and submitted to Hochman, Salkin and DeRoy. This preliminary material was not prepared by a State registered or certified professional and was without approval by the RWQCB. The Franklin Environmental subsequently reinvestigated the Carberry work.

3. Carberry and Associates environmental disclosure report dated November 1990, performed by Terrence Carberry and submitted to Hochman, Salkin and DeRoy. This report was re-discovered as a result of reviewing the second Carberry and Associates report.

677000

000134

000138

On behalf of Fleetwood Machine Products, Inc. a diligent record search has been completed. There has been a diligent interview of present and former employees who may have knowledge of the requested information. All information responsive to the Information Request has been forwarded to EPA.

Dated: 6/10/92

Bill Cooke  
Bill Cooke  
President, Fleetwood Machine  
Products, Inc.

**GENERAL ACKNOWLEDGMENT**

NO. 201

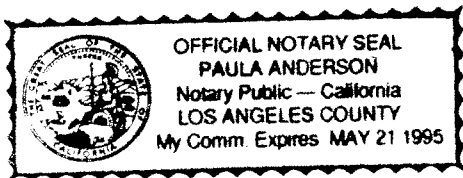
State of California  
County of Los Angeles } SS.

On this the 10<sup>th</sup> day of June, 1992, before me,

Paula Anderson

the undersigned Notary Public, personally appeared

Bill Cooke



☐ personally known to me

☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument, and acknowledged that he executed it.

WITNESS my hand and official seal.

Paula Anderson  
Notary's Signature

**ATTENTION NOTARY:** Although the information requested below is **OPTIONAL**, it could prevent fraudulent attachment of this certificate to another document.

THIS CERTIFICATE  
MUST BE ATTACHED  
TO THE DOCUMENT  
DESCRIBED AT RIGHT:

Title or Type of Document Supplemental Response Letter  
Number of Pages 2 Date of Document June 9, 1992  
Signer(s) Other Than Named Above none

## APPENDIX A

Boring # B-1 Date 1-26-1992 Geologist /Engineer Armen Minassian  
 Surface Elevation \_\_\_\_\_ Drilling Method H. S. A.  
 Job Name Fleetwood Location 11447 Vanowen Street, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	lithologic column	Description
1	SM	2 4 8	S-35				Brown, fine, well sorted Silty sand, moist, subangular strong odor
5	SM	2 4 8	S-36				Brown, fine, well sorted Silty sand, moist, subangular slight odor
10	SP	13 15 20	S-37				Brown, medium, moderately sorted gravelly sand, moist, subangular same cobbles
15	SP	12 15 23	S-38				Same
20	SM	8 16 17	S-39				Brown, fine, well sorted, silty sand, moist, subangular
25	SW	16 25 30	S-40				Brown, medium, well sorted, gravelly sand, moist, subangular some cobbles
30	SW	14 24 33	S-41				Same
35							
40	SW	17 27 30	S-42				Same



Boring # B-1 Date 1-26-1992 Geologist/Engineer Armen Minassian  
 Surface Elevation \_\_\_\_\_ Drilling Method H. S. A.  
 Job Name Fleetwood Location 11447 Vanowen Street, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	Lithologic column	Description
45							
50	SW	24 40 43	S-43				Brown, coarse, moderately sorted Gravelly sand, moist, subangular some cobbles,  End of Boring
55							
60							
65							
70							
75							
80							

Boring # B-2 Date 1-26-1992 Geologist/Engineer Armen Minassian  
 Surface Elevation \_\_\_\_\_ Drilling Method H. S. A.  
 Job Name Fleetwood Location 11447 Vanowen street, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	lithologic column	Description
1	SM	5 5 4	S-26				Brown, fine, well sorted, Silty sand, moist, subangular,
5	SP	3 5 6	S-27				Brown , medium, moderately sorted, gravelly sand, moist, subangular, some cobbles
10	GP	17 16 14	S-28				Brown, coarse, poorly sorted, sandy gravel, moist, subangular some cobbles
15	SP	14 23 28	S-29				Brown, medium, moderately sorted gravelly sand, moist, subangular some cobbles
20	SP	10 11 12	S-30				Same
25	SP	14 20 26	S-31				Same
30	SP	19 30 32	S-32				Same
35							
40	SM	25 36 44	S-33				Brown, fine, well sorted, Silty sand, moist, subangular

Boring # B-2, Date 1-26-1992 Geologist/Engineer Armen Minassian

Surface Elevation \_\_\_\_\_ Drilling Method H. S. A.

Job Name Fleetwood Location 11447 Vanowen Street, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	lithologic column	Description
45							
50	SW	21 45 50	S-34				Brown, medium, well sorted, gravelly sand, moist, subangular some cobbles
55							End of Borings
60							
65							
70							
75							
80							

Boring # B-3 Date 1-25-1992 Geologist /Engineer Armen MinassianSurface Elevation \_\_\_\_\_ Drilling Method H. S. A.Job Name Fleetwood Location 11447 Vanowen Street, N. Hollywood

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	Lithologic column	Description
1	SM	2	S-15				Brown, fine, well sorted Silty sand, moist, subangular
5	SP	7 9 10	S-16				Brown, medium, moderately sorted, gravelly sand, moist, subangular some cobbles
10	SP	18 25 18	S-17				Same
15	SP	13 19 23	S-18				Same
20	SP	10 14 20	S-19				Same
25	GP	9 20 40	S-20				Brown, coarse, poorly sorted, gravelly sand, moist, subangular, some cobbles
30	SP	18 25 39	S-21				Brown, medium, moderately sorted, gravelly sand, moist, subangular, some cobbles
35	SP	20 28 29	S-22				Same
40	SP	15 24 34	S-23				Same

Boring # B-3 Date 1-25-1992 Geologist /Engineer Armen Minassian  
 Surface Elevation \_\_\_\_\_ Drilling Method H. S. A.  
 Job Name Fleetwood Location 11447 Vanowen Street, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	lithologic column	Description
45							
50	SW	23 30 33	S-24				Brown, medium, well sorted, sand, moist, subangular,
55							
60							
65	GP	50 50	S-25				Brown, coarse, very poorly sorted sandy gravel, moist subangular, some cobbles,
70							End of Boring
75							
80							

Boring # B-4 Date 1-25-1992 Geologist /Engineer Armen Minassian

Surface Elevation \_\_\_\_\_ Drilling Method H. S. A.

Job Name Fleetwood Location 11447 Vanowen Street, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	lithologic column	Description
1	SM	3					
		4	S-4				Dark brown, fine, well sorted, Silty sand, moist, subangular,
		8					
5	SP	11	S-5				Brown, medium, moderately sorted, gravelly sand, moist, subangular some cobbles
		11					
		12					
10	SP	16	S-6				Same
		20					
		20					
15	GP	15	S-7				Brown, coarse, poorly sorted sandy gravel, moist, subangular some cobbles,
		19					
		12					
20	SP	11	S-8				Brown, medium, moderately sorted, gravelly sand, moist, subangular, some cobbles
		17					
		10					
25	SP	20	S-9				Same
		25					
		27					
30	SP	24	S-10				Same
		35					
		36					
35	SP	28	S-11				Same
		43					
		32					
40	SP	22	S-12				Same
		40					
		44					

Boring # B-4 Date 1-25-1992 Geologist/Engineer Armen Minassian  
 Surface Elevation \_\_\_\_\_ Drilling Method H. S. A.  
 Job Name Fleetwood Location 11447 Vanowen, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	lithologic column	Description
45	SP	42 50 50	S-13				Brown, medium, moderately sorted, gravelly sand, moist, subangular some cobbles
50	SW	25 38 38	S-14				Brown, medium, well sorted, sand, moist, subangular
55							End of Boring
60							
65							
70							
75							
80							

Boring # B-5 Date 1-26-1992 Geologist/Engineer Armen MinassianSurface Elevation \_\_\_\_\_ Drilling Method H. S. A.Job Name Fleetwood Location 11447 Vanowen, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	lithologic column	Description
1	SM	2 3 15	S-44				Brown, fine, well sorted, Silty sand, moist, subangular
5	SP	5 7 10	S-45				Brown, medium, moderately sorted gravelly sand, moist, subangular some cobbles
10	SP	12 16 13	S-46				Same
15	SP	17 22 24	S-47				Same
20	SM	9 18 21	S-48				Brown, fine, well sorted, silty sand, moist, subangular
25	SW	15 26 26	S-49				Brown, medium, well sorted gravelly sand, moist, subangular some cobbles
30	SW	21 29 22	S-50				Same
35							
40	SM	21 33 27	S-51				Brown, fine, well sorted, silty sand, moist, subangular



Boring # B-5 Date 1-26-1992 Geologist/Engineer Armen Minassian  
 Surface Elevation \_\_\_\_\_ Drilling Method H. S. A.  
 Job Name Fleetwood Location 11447 Vanowen, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	lithologic column	Description
45	GP	17	S-52				Light brown, coarse, poorly sorted sandy gravel, moist, subangular some cobbles
42		42					
50		50					
55							End of Boring
60							
65							
70							
75							
80							

Boring # B-6 Date 1-25-1992 Geologist/ Engineer Armen Minassian

Surface Elevation \_\_\_\_\_ Drilling Method H. S. A.

Job Name Fleetwood Location 11447 Vanowen Street, N. Hollywood, CA 91605

Depth (ft)	Classification	Blows/ft.	Undisturbed Sample	TIP II/ OVA readings in ppm	Field #/Lab #/ results	lithologic column	Description
1	SP	5 6 9	S-1				Brown, medium, moderately sorted, gravelly sand, moist, subangular, some cobbles
5	SP	7 9 10	S-2				Same
10	SP	16 26 42	S-3				Same
15							End of Boring
20							
25							
30							
35							
40							

## SOIL SAMPLING AND DECONTAMINATION PROTOCOL

### HOLLOW STEM AUGER

A hollow stem auger will be used to drill the borings. The samples will be obtained using a California modified split-spoon sampler. The sampler is driven into the soil by repeatedly dropping a 140 lb. hammer from a height of 30 inches above the sampler. The blow count is a record of the number of hammer releases required to drive the sampler into the soil. The blow count also reflects the relative density of the soil. The blow count is recorded on the Geologic Log.

The California modified split-spoon sampler consists of a two piece outer barrel that holds three 6 inch long by 2 inch diameter sleeves. The soil, forced into the sample barrel by the hammering action, is collected in the inner sleeves. the center sleeve is removed from the disassembled sampler barrel, capped with teflon end caps, sealed with utility tape, labeled, placed in an ice chest, transported, and delivered cold to a State Certified Analytical Laboratory by the geologist or engineer who collected the samples.

The center sleeve is chosen because it is subject to less cross contamination and mechanical disturbance from the drilling and sampling activities than the upper or lower sleeves. It is believed to best represent the undisturbed soil in the sample interval. The bottom or lower sleeve is also acceptable for use as a sample, and is sometimes collected when duplicate samples are required. The upper sleeve is used for describing the sample interval in the field, and the description is recorded on the Geologic Log.

All samples are labeled with permanent markers on plastic coated labels. Label information is as follows:

- 1) Company name and address
- 2) Field identification number
- 3) Laboratory identification number
- 4) Date
- 5) Sample location
- 6) Collectors signature

Decontamination of the sampler is performed after each sample collection. It consists of washing the sampler in a solution of TSP ( trisodium phosphate ) and tap water, a initial rinse in tap water, and a final rinse in distilled water. This is commonly referred to as the three bucket method. A clean ( steam cleaned ) set of augers were utilized for each boring.

## APPENDIX B

Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

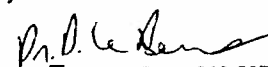
ug/Kg (ppb)

Client Sample#:	B-4, S-4, 1' **	B-4, S-5, 5' **	B-4, S-6, 10' **	Detection
GSAS Sample#:	GS-0192-972	GS-0192-973	GS-0192-974	Limits
Chloromethane	< 100	< 25	< 25	0.5
Bromomethane	< 100	< 25	< 25	0.5
Vinyl Chloride	< 100	< 25	< 25	0.5
Dichlorodifluoromethane	< 100	< 25	< 25	0.5
Chloroethane	< 100	< 25	< 25	0.5
Methylene Chloride	< 100	< 25	< 25	5.0
Trichlorofluoromethane	< 100	< 25	< 25	0.5
1,1-Dichloroethylene	< 100	< 25	< 25	0.5
1,1-Dichloroethane	< 100	< 25	< 25	0.5
trans-1,2-Dichloroethylene	< 100	< 25	< 25	0.5
cis-1,2-Dichloroethylene	< 100	< 25	< 25	0.5
Chloroform	< 100	< 25	< 25	0.5
1,2-Dichloroethane	< 100	< 25	< 25	0.5
1,1,1-Trichloroethane	3000	230	88	0.5
Carbon Tetrachloride	< 100	< 25	< 25	0.5
Bromodichloromethane	< 100	< 25	< 25	0.5
1,2-Dichloropropane	< 100	< 25	< 25	0.5
cis-1,3-Dichloropropylene	< 100	< 25	< 25	0.5
1,1,2-Trichloroethylene	< 100	< 25	< 25	0.5
Dibromochloromethane	< 100	< 25	< 25	0.5
1,1,2-Trichloroethane	< 100	< 25	< 25	0.5
trans-1,3-Dichloropropylene	< 100	< 25	< 25	0.5
2-Chloroethylvinyl Ether	< 100	< 25	< 25	0.5
Bromoform	< 100	< 25	< 25	0.5
1,1,2,2-Tetrachloroethane	< 100	< 25	< 25	0.5
Tetrachloroethene	7400	800	560	5.0
Chlorobenzene	< 100	< 25	< 25	0.5
1,3-Dichlorobenzene	< 100	< 25	< 25	0.5
1,2-Dichlorobenzene	< 100	< 25	< 25	0.5
1,4-Dichlorobenzene	< 100	< 25	< 25	0.5

\*\* Detection limit has been raised due to matrix interferences.

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

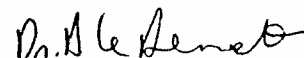
**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-4, S-7, 15'	B-4, S-8, 20'	B-4, S-9, 25'	Detection
GSAS Sample#:	GS-0191-975	GS-0192-976	GS-0192-977	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett



*Franklin*

ENVIRONMENTAL MANAGEMENT SERVICES

March 19, 1992

REPORT ON  
PRELIMINARY SITE INVESTIGATION

Site Location:  
Fleetwood Machine Products, Inc.  
11447 Vanowen St.  
North Hollywood, CA 91605  
(File No. 111.0435)

Prepared For:  
California Regional Water Quality Control Board -  
Los Angeles Region  
101 Centre Plaza Drive  
Monterey Park, CA 91754-2156

Prepared By:  
Franklin Environmental  
Project # 9202



*Armen G. Minassian*  
Armen Minnassian

California Registered Professional Engineer (No. 1582)

*Ali Marud*

Ali Marud

Project Manager

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### TABLES

TABLE 1 - SUMMARY OF SOIL ANALYSIS

### FIGURES

FIGURE 1 - SITE PLAN  
FIGURE 2 - CROSS SECTION A-A'  
FIGURE 3 - PROPOSED SOIL BORINGS

### APPENDICES

APPENDIX A - BORING LOGS  
APPENDIX B - LABORATORY ANALYTICAL RESULTS AND  
CHAIN-OF-CUSTODY DOCUMENTS



## EXECUTIVE SUMMARY

On January 25 and 26, 1992, Franklin Environmental (FE) conducted an initial subsurface soil investigation at Fleetwood Machine Products, Inc. (FMP) located at 11447 Vanowen street, North Hollywood, California. The investigation was performed as required by the Regional Water Quality Control Board (RWQCB) - Los Angeles Region in accordance with the Workplan dated November 18, 1991.

Six soil borings were drilled at the site to a depth ranging from 10 feet to 65 feet below ground surface (bgs). Discrete soil samples were collected and analyzed for total recoverable petroleum hydrocarbon (TRPH), total petroleum hydrocarbons (TPH), aromatic hydrocarbons (BTX&E) and volatile organic compounds (VOC) using U.S. EPA methods 418.1, 8015, 8020 and 8010, respectively.

Elevated levels of TRPH and VOC (tetrachloroethylene and 1,1,1-trichloroethane) were detected in soil samples collected at the oil storage tank area. The maximum depth of impacted soil was found to be approximately 30 feet bgs. The presence of VOC was found to be associated with the presence of TRPH which suggests the two are bound together.

The borings drilled at the site encountered mainly sand, silty sand and gravelly sand. Cobbles were encountered at depths ranging from 50 to 60 feet bgs. No groundwater was encountered at the site during the drilling to maximum depth of 65 feet.

Further investigation is recommended to define lateral extent of impacted soil at the oil storage area. Evaluation of remedial alternatives will be pursued at the conclusion of this follow-up investigation.

## 1. INTRODUCTION

Fleetwood Machine Products, Inc. (FMP) is located at 11447 Vanowen street, North Hollywood, California. Three structures are located on site. A 9,200 square foot building and a 2,200 square foot building used for machining operation and office space. Another 1,150 square foot building used for machine shop and inspection. Other covered open front structures are located along the northern boundary of the property and used to house a small deburring operation and machine chip collection bins. A 500 gallon steel oil storage tank is located to the east of the chip collection bins. See figure - 1, site plan.

This investigation was required by the Region Water Quality Control Board (RWQCB) - Los Angeles Region in accordance with the Workplan dated November 18, 1991 (File No. 111.0435).

## 2 - SCOPE OF WORK

The Site Investigation activities consisted of drilling, sampling and backfilling six (6) soil borings. Four soil borings were made in the oil tank storage area. One soil boring was made south of the metal chips storage area, and one soil boring was made inside the machine shop area. The facility plot plan and soil boring location is presented in Appendix A, Figure 1.

Soil Boring B-1 was drilled to a depth of 50 feet in the oil tank storage area. Soil samples were collected from 1, 5, 10, 15, 20, 25, 30, 40 and 50 foot intervals.

Soil Boring B-2 was drilled to a depth of 50 feet, in the oil tank storage area. Soil samples were collected from 1, 5, 10, 15, 20, 25, 30, 40 and 50 foot intervals.

Soil Boring B-3 was drilled to a depth of 65 feet in the center of the oil tank storage area. Soil samples were collected from 1, 5, 10, 15, 20, 25, 30, 35, 40, 50 and 65 foot intervals. Cobbles and boulders were encountered beyond the 55 foot interval. The 60 foot sample was not collected due to cobbles and boulders encountered. The boring was then drilled to 65 feet and a final sample was collected.

Soil Boring B-4 was drilled to a depth of 50 feet at the west of the oil tank storage area. Soil samples were collected from 1, 5, 10, 15, 20, 25, 30, 35, 40, 45 and 50 foot intervals.

Soil Boring B-5 was drilled to a depth of 50 feet, 8 feet south of the metal chips storage area. Soil samples were collected from 1, 5, 10, 15, 20, 25, 30, 40 and 50 foot intervals.

Soil Boring B-6 was drilled to a depth of 10 feet inside the machine shop area. Soil samples were collected from 1, 5 and 10 foot intervals.

The soil borings were drilled by Geological Drilling Inc., utilizing a conventional truck mounted hollow stem auger drill rig for the outdoors borings, B-1 thru B-5, and "R3D3", a limited access crawler-mounted hollow stem mini drill rig for the indoor boring, B-6. Location of the borings was selected by RWQCB staff. Soil sampling and decontamination protocol is attached in Appendix A. All soil borings were backfilled with bentonite slurry and sealed on the surface with cement or asphalt. The soil generated by the drilling operations was stored in DOT approved 55 gallon drums. Disposal of the soil should be based on the concurrence of the RWQCB with this report's findings.

All soil borings were logged by a California Registered Professional Engineer utilizing the Unified Soil Classification System. A refined copy of the geologic log is presented in Appendix A., Chain-of-Custody documents, analytical results and QA/QC data is presented in Appendix B.

### 3. RESULTS OF CHEMICAL ANALYSIS OF SOIL SAMPLES

All soil samples were analyzed for total recoverable petroleum hydrocarbon (TRPH) using U.S. EPA method 418.1, total petroleum hydrocarbons (TPH) using U.S. EPA method 8015 modified for gasoline, aromatic hydrocarbons (BTX&E) using U.S. EPA method 8020 and volatile organic compounds (VOC) using U.S. EPA method 8010. Results of soil analysis are summarized in table 1. Boring locations are shown in figure 1.

- No measured concentrations of TPH and BTX&E were detected in any soil samples collected from the six borings, B-1 through B-6
- No measured concentrations of VOC were detected in any soil samples collected from the borings, B-2, B-5 and B-6.
- The highest concentrations of pollutants measured in soil samples from B-6 (inside the machine shop) was 4 mg/kg of TRPH at 5 feet bgs. No detectable concentrations of VOC were measured in soil samples from boring B-6
- Soil samples collected from boring B-5 (drilled south of the chip collection bins) did not register measured concentrations of VOC. The highest value of measured concentrations of TRPH was 2,600 mg/kg at 10 feet bgs.
- Soil samples collected from boring B-2 (drilled 25 foot south of the oil storage tank) did not register measured concentrations of VOC. The highest measured concentrations of TRPH was 10 mg/kg at 15 feet bgs.

- Soil samples collected from borings B-1, B-3 and B-4 (drilled at the oil storage tank area) did register TRPH at a maximum concentrations of 24,000 mg/kg at boring B-3, 5 feet bgs. Detected halogenated VOC include tetrachloroethylene (PCE) at a maximum concentrations of 16,000 ug/kg and 1,1,1-trichloroethane (1,1,1-TCA) at a maximum concentrations of 16,000 ug/kg at boring B-3, 5 feet bgs. 1,1-dichloroethylene (1,1-DCE) was detected in one soil sample at a concentration of 720 ug/kg at boring B-3, 5 feet bgs.

#### 4. CONCLUSIONS

Analytical data indicate that the subsurface soils at the oil storage area are impacted with TRPH and some halogenated VOC (mainly PCE and 1,1,1-TCA). The vertical extent of the impacted soil ranges from less than 15 feet bgs at the western side of the oil storage tank to approximately 30 feet bgs at the eastern the oil storage tank (See figure 2). The lateral extent of the impacted soil is not known, however, available data do not suggest that it is extensive. Soil samples from boring B-2, 25 feet south of the impacted area registered no detectable concentrations of VOC and insignificant (close to minimum reporting limits) concentrations of TRPH.

The analytical data find that the PCE and 1,1,1-TCA are associated with the TRPH. The reasons for drawing this conclusion are:

- No free PCE or 1,1,1-TCA were detected. VOC was only detected in association with high concentrations of TRPH.
- The values of measured concentrations of the VOC and TRPH. Generally, higher concentrations of VOC were measured in soil samples that also measured high concentrations of TRPH.
- The relatively sharp discontinuity of VOC vertically. This suggests that the relatively mobile VOC molecules are "fixed" by the TRPH molecules since VOC are soluble in TRPH. Generally the soil matrix firmly absorbs heavy molecules such as those of high boiling compounds typically found in TRPH. This would explain why the otherwise relatively mobile VOC appears to be locked in the soil matrix.

## 5. RECOMMENDATIONS

Further investigation is recommended to define lateral extent of impacted soil at the oil storage area. This, in turn, will adequately define the contamination's parameters to prepare an evaluation of remedial alternatives. Five soil borings are recommended to be drilled, three to the north of the impacted area, 10 feet north of the property fence line. Another boring is recommended to be drilled 10 feet to the east of boring B-1. See figure 3 for the proposed boring locations.

Each boring is suggested to be drilled to a maximum 40 feet bgs. Discrete soil samples will be collected at 5 foot intervals and analyzed for TRPH, TPH, BTX&E and VOC using U.S. EPA methods 418.1 8015, 8020 and 8010, respectively. TPH and BTX&E analysis are recommended although they were not detected in this investigation because the area north of the fence line where three borings are proposed is an auto scrap yard. These three suggested borings cannot be installed without the adjoining property owner's consent.



TABLE 1  
SUMMARY OF SOIL ANALYSIS

FLEETWOOD MACHINE PRODUCTS, INC., 11447 VANOWEN STREET, NORTH HOLLYWOOD, CALIFORNIA 91605

Soil Boring	Sample Depth (feet)	TPH			Detected Halogenated VOC		
		Gasoline (mg/kg) (1)	BTX&E (ug/kg) (2)	TRPH (mg/kg) (3)	1,1,1-TCA (ug/kg) (4)	PCE (ug/kg) (5)	1,1-DCE (ug/kg) (6)
B-1	1	BRL	BRL	14,000	3,700	8,400	BRL
B-1	5	BRL	BRL	5,700	720	4,300	BRL
B-1	10	BRL	BRL	5,000	670	4,300	BRL
B-1	15	BRL	BRL	5,800	800	3,300	BRL
B-1	20	BRL	BRL	3,400	2,400	5,100	BRL
B-1	25	BRL	BRL	17,000	250	2,900	BRL
B-1	30	BRL	BRL	8,200	5,200	9,900	BRL
B-1	40	BRL	BRL	BRL	BRL	BRL	BRL
B-1	50	BRL	BRL	2	BRL	BRL	BRL
B-2	1	BRL	BRL	BRL	BRL	BRL	BRL
B-2	5	BRL	BRL	4	BRL	BRL	BRL
B-2	10	BRL	BRL	3	BRL	BRL	BRL
B-2	15	BRL	BRL	10	BRL	BRL	BRL
B-2	20	BRL	BRL	3	BRL	BRL	BRL
B-2	25	BRL	BRL	6	BRL	BRL	BRL
B-2	30	BRL	BRL	BRL	BRL	BRL	BRL
B-2	40	BRL	BRL	BRL	BRL	BRL	BRL
B-2	50	BRL	BRL	BRL	BRL	BRL	BRL
B-3	1	BRL	BRL	31	56	25	BRL
B-3	5	BRL	BRL	24,000	16,000	16,000	720
B-3	10	BRL	BRL	4,500	1,700	3,000	BRL
B-3	15	BRL	BRL	5,200	730	2,500	BRL
B-3	20	BRL	BRL	2,600	170	2,100	BRL
B-3	25	BRL	BRL	12,000	700	13,000	BRL
B-3	30	BRL	BRL	7	BRL	BRL	BRL
B-3	35	BRL	BRL	10	BRL	BRL	BRL
B-3	40	BRL	BRL	BRL	BRL	BRL	BRL
B-3	50	BRL	BRL	BRL	BRL	BRL	BRL
B-3	65	BRL	BRL	BRL	BRL	BRL	BRL
B-4	1	BRL	BRL	22,000	3,000	4,700	BRL
B-4	5	BRL	BRL	1,500	230	800	BRL
B-4	10	BRL	BRL	820	88	560	BRL
B-4	15	BRL	BRL	21	BRL	BRL	BRL
B-4	20	BRL	BRL	2	BRL	BRL	BRL
B-4	25	BRL	BRL	BRL	BRL	BRL	BRL
B-4	30	BRL	BRL	2	BRL	BRL	BRL
B-4	35	BRL	BRL	14	BRL	BRL	BRL
B-4	40	BRL	BRL	2	BRL	BRL	BRL
B-4	45	BRL	BRL	10	BRL	BRL	BRL
B-4	50	BRL	BRL	BRL	BRL	BRL	BRL

Continue

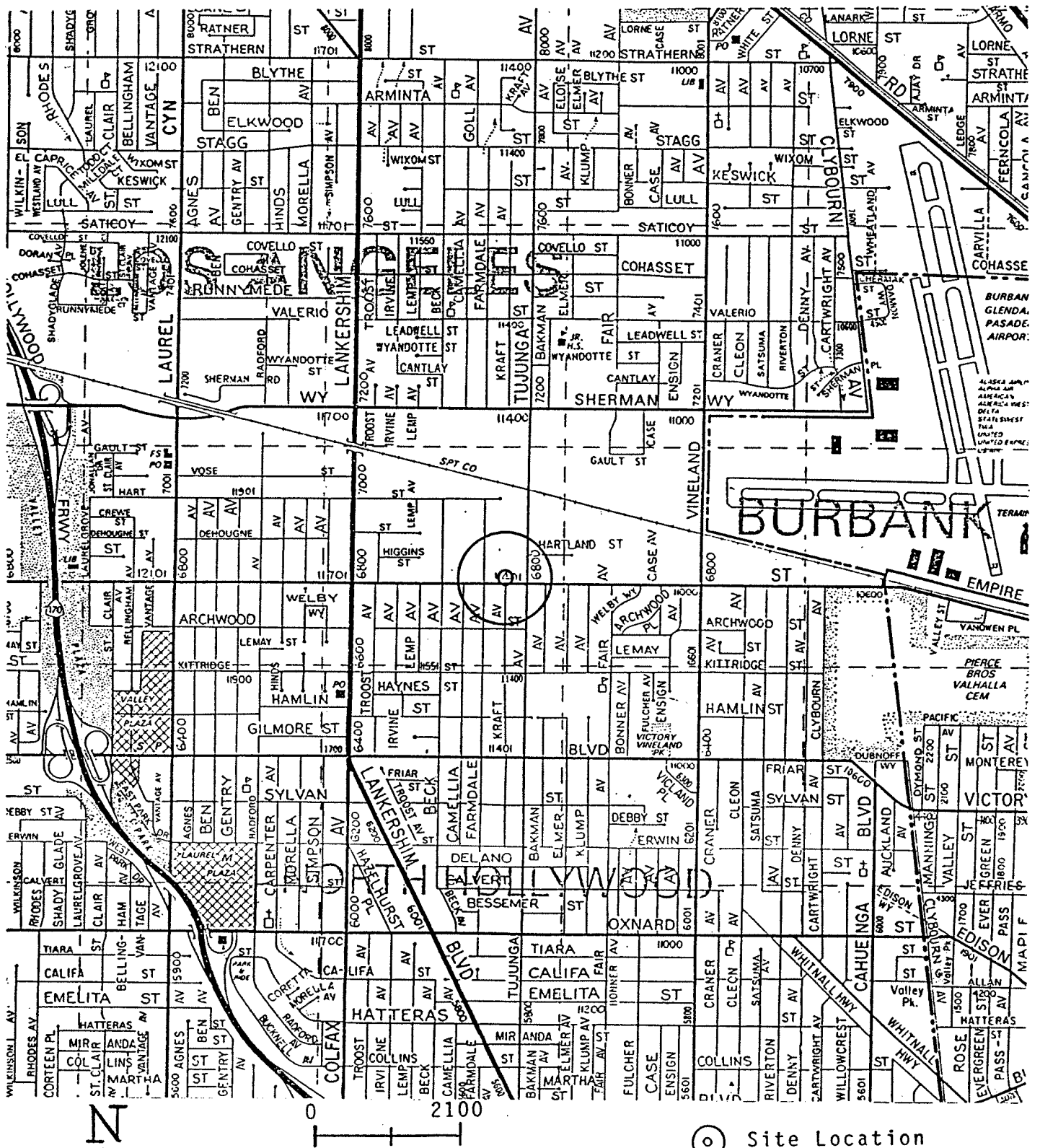
TABLE 1 (CONT.)  
SUMMARY OF SOIL ANALYSIS

LEETWOOD MACHINE PRODUCTS, INC., 11447 VANOWEN STREET, NORTH HOLLYWOOD, CALIFORNIA 91605

Soil Boring	Sample Depth (feet)	TPH			Detected Halogenated VOC		
		Gasoline (mg/kg) (1)	BTX&E (ug/kg) (2)	TRPH (mg/kg) (3)	1,1,1-TCA (ug/kg) (4)	PCE (ug/kg) (5)	1,1-DCE (ug/kg) (6)
-5	1	BRL	BRL	BRL	BRL	BRL	BRL
-5	5	BRL	BRL	BRL	BRL	BRL	BRL
-5	10	BRL	BRL	2,600	BRL	BRL	BRL
-5	15	BRL	BRL	16	BRL	BRL	BRL
-5	20	BRL	BRL	BRL	BRL	BRL	BRL
-5	25	BRL	BRL	12	BRL	BRL	BRL
-5	30	BRL	BRL	3	BRL	BRL	BRL
-5	40	BRL	BRL	2	BRL	BRL	BRL
-5	50	BRL	BRL	2	BRL	BRL	BRL
-6	1	BRL	BRL	3	BRL	BRL	BRL
-6	5	BRL	BRL	4	BRL	BRL	BRL
-6	10	BRL	BRL	BRL	BRL	BRL	BRL

tes:

- 1) Total petroleum hydrocarbons (TPH), analyzed by U.S. EPA method 8015 modified for gasoline.
- (2) Benzene, toluene, xylenes, and ethylbenzene, analyzed by U.S. EPA method 8020.
- (3) Total recoverable petroleum hydrocarbons (TRPH), analyzed by U.S. EPA method 418.1.
- 4) 1,1,1-Trichloroethane, analyzed by U.S. EPA method 8010.
- (5) Tetrachloroethene, analyzed by U.S. EPA method 8010.
- (6) 1,1-Dichloroethylene, analyzed by U.S. EPA method 8010.
- 7) BRL, Below Reporting Limit, 0.1 mg/kg for U.S. EPA method 8015, 5.0 ug/kg for U.S. EPA method 8020, 2 mg/kg for U.S. EPA method 418.1, and 5.0 ug/kg for U.S. EPA method 8010 without matrix interference. BRL for U.S. EPA method 8010 was increased to 25, 50, 100, 250, and 500 ug/kg when matrix interferences were encountered due to high TRPH.
- 8) Analysis were conducted by Golden State Analytical Services, Inc. (GSAS), Van Nuys, California, between 1/30/92 and 2/6/92.



○ Site Location

SCALE: 1"=2100'

DATE: 3-5-1992

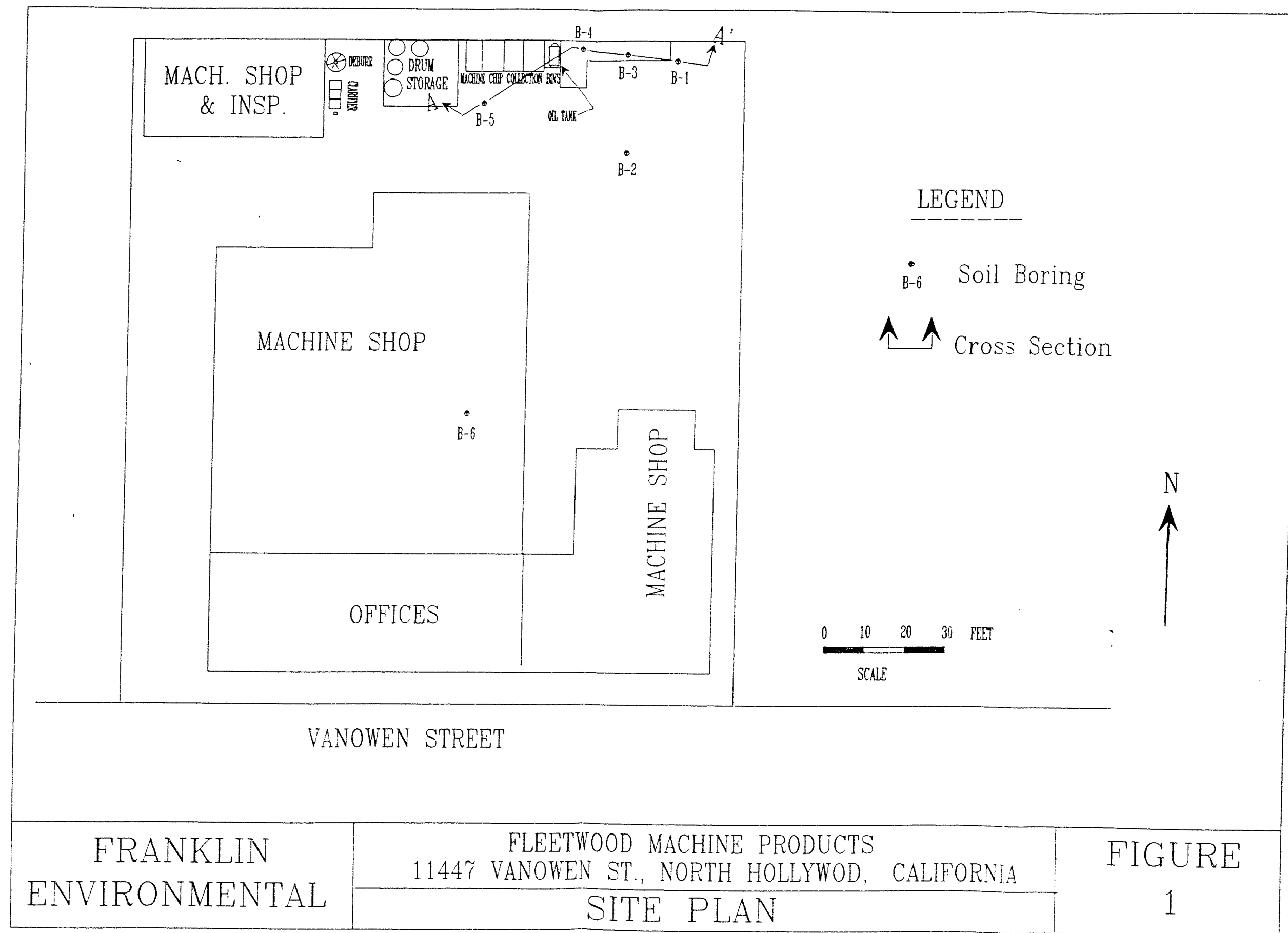
Location Map

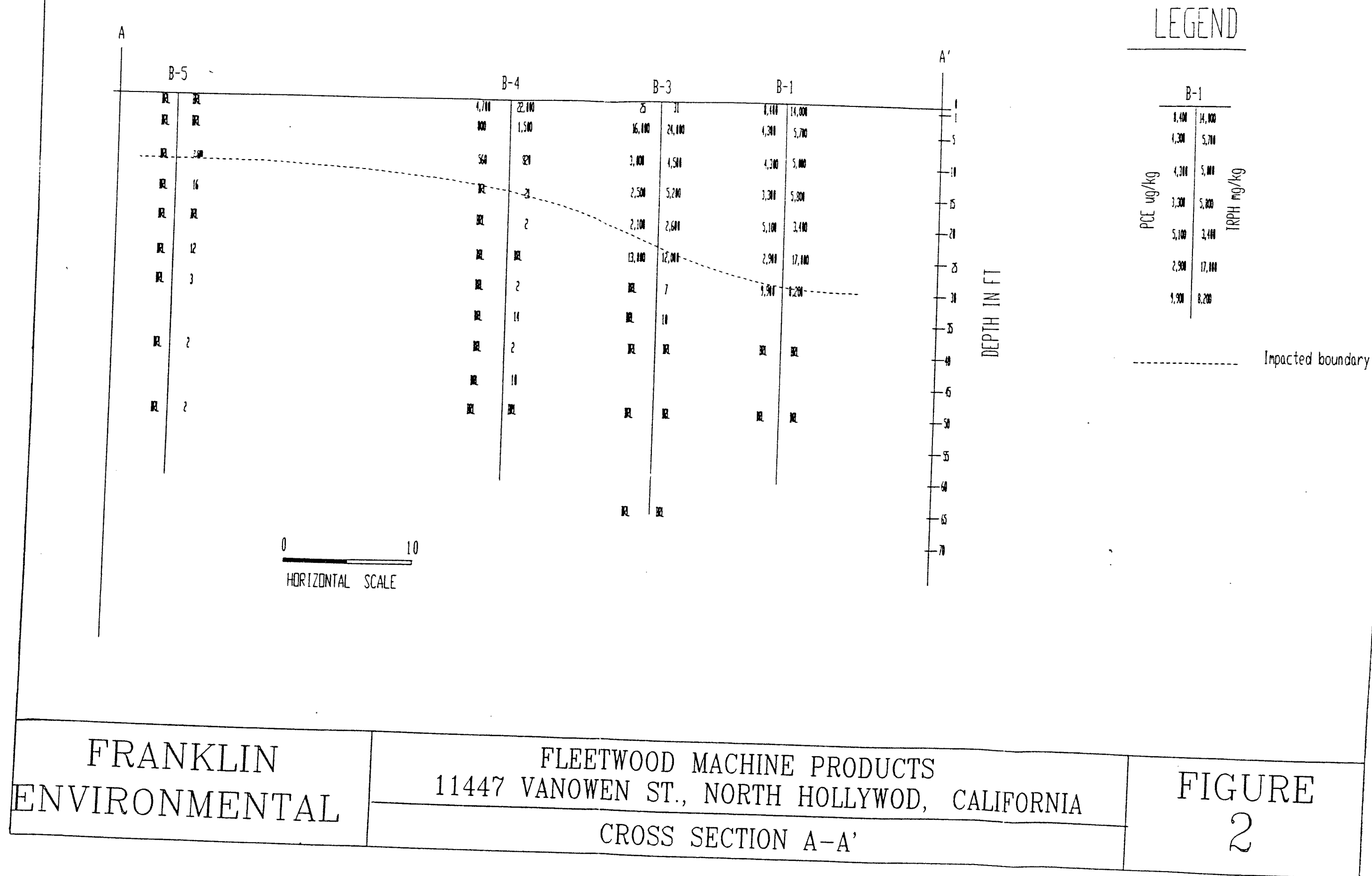
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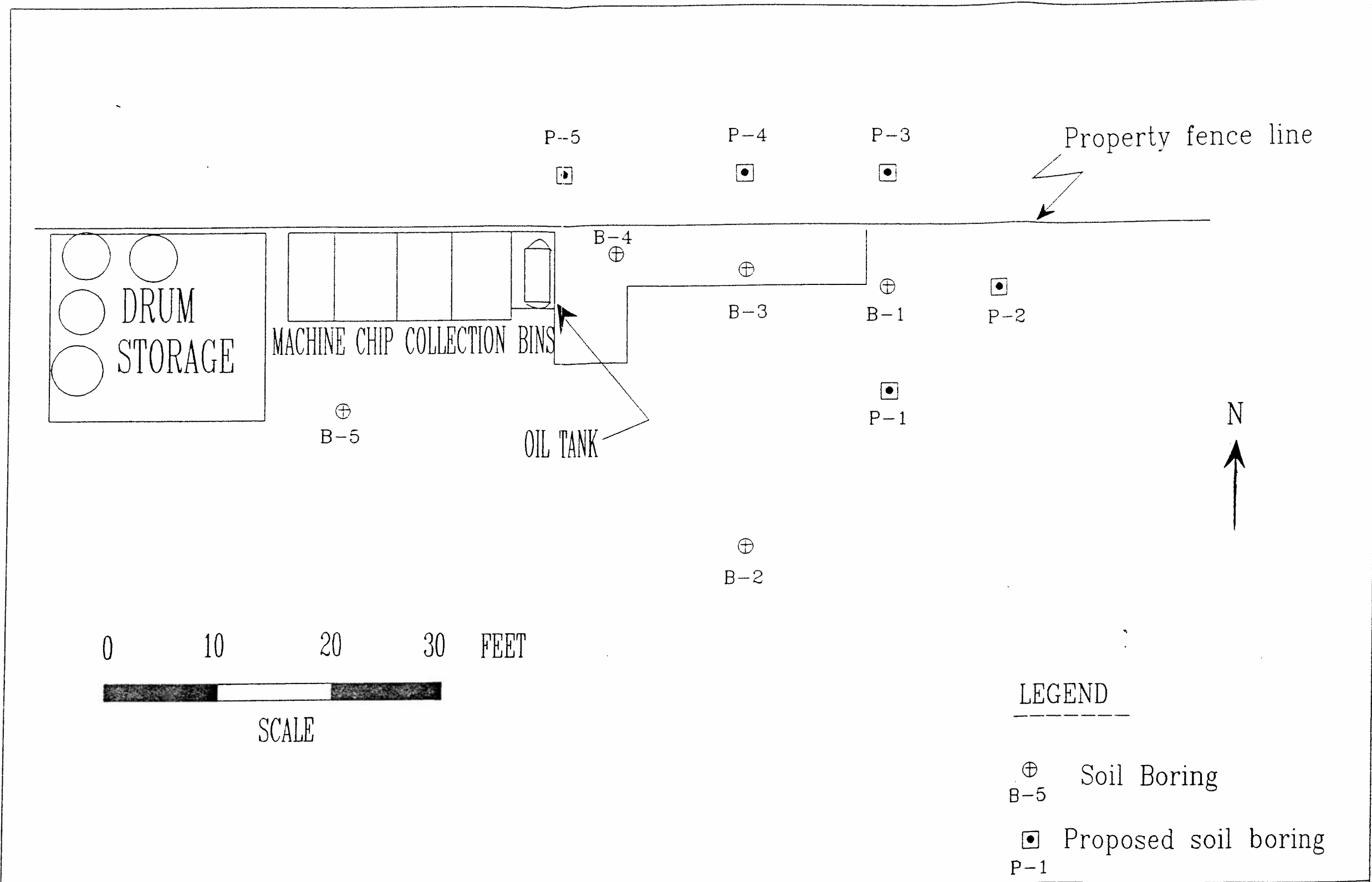
REVISED A.G.M.

11447 Vanowen Street, N. Hollywood, CA 91605

Franklin Environmental







FRANKLIN ENVIRONMENTAL	FLEETWOOD MACHINE PRODUCTS 11447 VANOWEN ST., NORTH HOLLYWOD, CALIFORNIA	FIGURE 3
	PROPOSED SOIL BORINGS	

Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

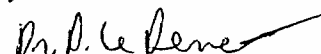
ug/Kg (ppb)

Client Sample#:	B-3, S-19, 20' **	B-3, S-20, 25' **	B-3, S-21, 30'	Detection
GSAS Sample#:	GS-0192-987	GS-0192-988	GS-0192-989	Limits
Chloromethane	< 250	< 500	ND	0.5
Bromomethane	< 250	< 500	ND	0.5
Vinyl Chloride	< 250	< 500	ND	0.5
Dichlorodifluoromethane	< 250	< 500	ND	0.5
Chloroethane	< 250	< 500	ND	0.5
Methylene Chloride	< 250	< 500	ND	5.0
Trichlorofluoromethane	< 250	< 500	ND	0.5
1,1-Dichloroethylene	< 250	< 500	ND	0.5
1,1-Dichloroethane	< 250	< 500	ND	0.5
trans-1,2-Dichloroethylene	< 250	< 500	ND	0.5
cis-1,2-Dichloroethylene	< 250	< 500	ND	0.5
Chloroform	< 250	< 500	ND	0.5
1,2-Dichloroethane	< 250	< 500	ND	0.5
1,1,1-Trichloroethane	170	700	ND	0.5
Carbon Tetrachloride	< 250	< 500	ND	0.5
Bromodichloromethane	< 250	< 500	ND	0.5
1,2-Dichloropropane	< 250	< 500	ND	0.5
cis-1,3-Dichloropropylene	< 250	< 500	ND	0.5
1,1,2-Trichloroethylene	< 250	< 500	ND	0.5
Dibromochloromethane	< 250	< 500	ND	0.5
1,1,2-Trichloroethane	< 250	< 500	ND	0.5
trans-1,3-Dichloropropylene	< 250	< 500	ND	0.5
2-Chloroethylvinyl Ether	< 250	< 500	ND	0.5
Bromoform	< 250	< 500	ND	0.5
1,1,2,2-Tetrachloroethane	< 250	< 500	ND	0.5
Tetrachloroethene	2100	13000	ND	5.0
Chlorobenzene	< 250	< 500	ND	0.5
1,3-Dichlorobenzene	< 250	< 500	ND	0.5
1,2-Dichlorobenzene	< 250	< 500	ND	0.5
1,4-Dichlorobenzene	< 250	< 500	ND	0.5

\*\* Detection limit has been raised due to matrix interferences.

ND: None Detected

Approved By: Dr. B. Gene Bennett





**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-3, S-22, 35'	B-3, S-23, 40'	B-3, S-24, 50'	Detection
GSAS Sample#:	GS-0192-990	GS-0192-991	GS-0192-992	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

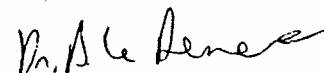
**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-3, S-25, 65'	B-2, S-26, 1'	B-2, S-27, 5'	Detection
GSAS Sample#:	GS-0192-993	GS-0192-994	GS-0192-995	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-2, S-28, 10'	B-2, S-29, 15'	B-2, S-30, 20'	Detection
GSAS Sample#:	GS-0192-996	GS-0192-997	GS-0192-998	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

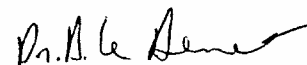
**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-2, S-31, 25'	B-2, S-32, 30'	B-2, S-33, 40'	Detection
GSAS Sample#:	GS-0192-999	GS-0192-1000	GS-0192-1001	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258.

**HALOGENATED VOLATILE ORGANICS (8010)**

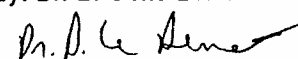
ug/Kg (ppb)

Client Sample#:	B-2, S-34, 50'	B-1, S-35, 1' **	B-1, S-36, 5' **	Detection
GSAS Sample#:	GS-0192-1002	GS-0192-1003	GS-0192-1004	Limits
Chloromethane	ND	< 250	< 50	0.5
Bromomethane	ND	< 250	< 50	0.5
Vinyl Chloride	ND	< 250	< 50	0.5
Dichlorodifluoromethane	ND	< 250	< 50	0.5
Chloroethane	ND	< 250	< 50	0.5
Methylene Chloride	ND	< 250	< 50	5.0
Trichlorofluoromethane	ND	< 250	< 50	0.5
1,1-Dichloroethylene	ND	< 250	< 50	0.5
1,1-Dichloroethane	ND	< 250	< 50	0.5
trans-1,2-Dichloroethylene	ND	< 250	< 50	0.5
cis-1,2-Dichloroethylene	ND	< 250	< 50	0.5
Chloroform	ND	< 250	< 50	0.5
1,2-Dichloroethane	ND	< 250	< 50	0.5
1,1,1-Trichloroethane	ND	3700	720	0.5
Carbon Tetrachloride	ND	< 250	< 50	0.5
Bromodichloromethane	ND	< 250	< 50	0.5
1,2-Dichloropropane	ND	< 250	< 50	0.5
cis-1,3-Dichloropropylene	ND	< 250	< 50	0.5
1,1,2-Trichloroethylene	ND	< 250	< 50	0.5
Dibromochloromethane	ND	< 250	< 50	0.5
1,1,2-Trichloroethane	ND	< 250	< 50	0.5
trans-1,3-Dichloropropylene	ND	< 250	< 50	0.5
2-Chloroethylvinyl Ether	ND	< 250	< 50	0.5
Bromoform	ND	< 250	< 50	0.5
1,1,2,2-Tetrachloroethane	ND	< 250	< 50	0.5
Tetrachloroethene	ND	8400	4300	5.0
Chlorobenzene	ND	< 250	< 50	0.5
1,3-Dichlorobenzene	ND	< 250	< 50	0.5
1,2-Dichlorobenzene	ND	< 250	< 50	0.5
1,4-Dichlorobenzene	ND	< 250	< 50	0.5

\*\* Detection limit has been raised due to matrix interferences.

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

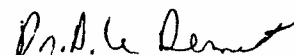
ug/Kg (ppb)

Client Sample#:	B-1, S-37, 10' **	B-1, S-38, 15' **	B-1, S-39, 20' **	Detection
GSAS Sample#:	GS-0192-1005	GS-0192-1006	GS-0192-1007	Limits
Chloromethane	< 50	< 50	< 50	0.5
Bromomethane	< 50	< 50	< 50	0.5
Vinyl Chloride	< 50	< 50	< 50	0.5
Dichlorodifluoromethane	< 50	< 50	< 50	0.5
Chloroethane	< 50	< 50	< 50	0.5
Methylene Chloride	< 50	< 50	< 50	5.0
Trichlorofluoromethane	< 50	< 50	< 50	0.5
1,1-Dichloroethylene	< 50	< 50	< 50	0.5
1,1-Dichloroethane	< 50	< 50	< 50	0.5
trans-1,2-Dichloroethylene	< 50	< 50	< 50	0.5
cis-1,2-Dichloroethylene	< 50	< 50	< 50	0.5
Chloroform	< 50	< 50	< 50	0.5
1,2-Dichloroethane	< 50	< 50	< 50	0.5
1,1,1-Trichloroethane	670	800	2400	0.5
Carbon Tetrachloride	< 50	< 50	< 50	0.5
Bromodichloromethane	< 50	< 50	< 50	0.5
1,2-Dichloropropane	< 50	< 50	< 50	0.5
cis-1,3-Dichloropropylene	< 50	< 50	< 50	0.5
1,1,2-Trichloroethylene	< 50	< 50	< 50	0.5
Dibromochloromethane	< 50	< 50	< 50	0.5
1,1,2-Trichloroethane	< 50	< 50	< 50	0.5
trans-1,3-Dichloropropylene	< 50	< 50	< 50	0.5
2-Chloroethylvinyl Ether	< 50	< 50	< 50	0.5
Bromoform	< 50	< 50	< 50	0.5
1,1,2,2-Tetrachloroethane	< 50	< 50	< 50	0.5
Tetrachloroethene	4300	3300	5100	5.0
Chlorobenzene	< 50	< 50	< 50	0.5
1,3-Dichlorobenzene	< 50	< 50	< 50	0.5
1,2-Dichlorobenzene	< 50	< 50	< 50	0.5
1,4-Dichlorobenzene	< 50	< 50	< 50	0.5

\*\* Detection limit has been raised due to matrix interferences.

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

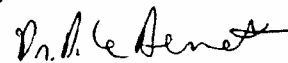
ug/Kg (ppb)

Client Sample#:	B-1, S-40, 25' **	B-1, S-41, 30' **	B-1, S-42, 40'	Detection
GSAS Sample#:	GS-0192-1008	GS-0192-1009	GS-0192-1010	Limits
Chloromethane	< 50	< 100	ND	0.5
Bromomethane	< 50	< 100	ND	0.5
Vinyl Chloride	< 50	< 100	ND	0.5
Dichlorodifluoromethane	< 50	< 100	ND	0.5
Chloroethane	< 50	< 100	ND	0.5
Methylene Chloride	< 50	< 100	ND	5.0
Trichlorofluoromethane	< 50	< 100	ND	0.5
1,1-Dichloroethylene	< 50	< 100	ND	0.5
1,1-Dichloroethane	< 50	< 100	ND	0.5
trans-1,2-Dichloroethylene	< 50	< 100	ND	0.5
cis-1,2-Dichloroethylene	< 50	< 100	ND	0.5
Chloroform	< 50	< 100	ND	0.5
1,2-Dichloroethane	< 50	< 100	ND	0.5
1,1,1-Trichloroethane	250	5200	ND	0.5
Carbon Tetrachloride	< 50	< 100	ND	0.5
Bromodichloromethane	< 50	< 100	ND	0.5
1,2-Dichloropropane	< 50	< 100	ND	0.5
cis-1,3-Dichloropropylene	< 50	< 100	ND	0.5
1,1,2-Trichloroethylene	< 50	< 100	ND	0.5
Dibromochloromethane	< 50	< 100	ND	0.5
1,1,2-Trichloroethane	< 50	< 100	ND	0.5
trans-1,3-Dichloropropylene	< 50	< 100	ND	0.5
2-Chloroethylvinyl Ether	< 50	< 100	ND	0.5
Bromoform	< 50	< 100	ND	0.5
1,1,2,2-Tetrachloroethane	< 50	< 100	ND	0.5
Tetrachloroethene	2900	9900	ND	5.0
Chlorobenzene	< 50	< 100	ND	0.5
1,3-Dichlorobenzene	< 50	< 100	ND	0.5
1,2-Dichlorobenzene	< 50	< 100	ND	0.5
1,4-Dichlorobenzene	< 50	< 100	ND	0.5

\*\* Detection limit has been raised due to matrix interferences.

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-1, S-43, 50'	B-5, S-44, 1'	B-5, S-45, 5'	Detection
GSAS Sample#:	GS-0192-1011	GS-0192-1012	GS-0192-1013	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett





Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

### HALOGENATED VOLATILE ORGANICS (8010)

ug/Kg (ppb)

Client Sample#:	B-5, S-46, 10'	B-5, S-47, 15'	B-5, S-48, 20'	Detection
GSAS Sample#:	GS-0192-1014	GS-0192-1015	GS-0192-1016	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*





Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

### HALOGENATED VOLATILE ORGANICS (8010)

ug/Kg (ppb)

Client Sample#:	S-5, S-49, 25'	B-5, S-50, 30'	B-5, S-51, 40'	Detection
GSAS Sample#:	GS-0192-1017	GS-0192-1018	GS-0192-1019	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett

Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-5, S-52, 50'		Detection
GSAS Sample#:	GS-0192-1020	Method Blank	Limits
<hr/>			
Chloromethane	ND	ND	0.5
Bromomethane	ND	ND	0.5
Vinyl Chloride	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	0.5
Chloroethane	ND	ND	0.5
Methylene Chloride	ND	ND	5.0
Trichlorofluoromethane	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	0.5
1,1-Dichloroethane	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	0.5
Chloroform	ND	ND	0.5
1,2-Dichloroethane	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	0.5
Carbon Tetrachloride	ND	ND	0.5
Bromodichloromethane	ND	ND	0.5
1,2-Dichloropropane	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	0.5
Dibromochloromethane	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	0.5
Bromoform	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	0.5
Tetrachloroethene	ND	ND	5.0
Chlorobenzene	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett





Client: Franklin Environmental Matrix: Soil  
Project Name: Fleetwood Machine / N. Hollywood Date Received: 01/27/92  
Project#: N/A Date Analyzed: 01/30/92 - 02/06/92  
P.O.#: N/A GSAS Job#: 8258

Total Petroleum Hydrocarbons / BTX & E  
8015m / EPA 8020

Client Sample#	GSAS Sample#	Benzene ug/Kg (ppb)	Toluene ug/Kg (ppb)	Total Xylenes ug/Kg (ppb)	Ethyl Benzene ug/Kg (ppb)	TPH - 8015m Gasoline mg/Kg (ppm)
B-6, S-1, 1'	GS-0192-969	ND	ND	ND	ND	ND
B-6, S-2, 5'	GS-0192-970	ND	ND	ND	ND	ND
B-6, S-3, 10'	GS-0192-971	ND	ND	ND	ND	ND
B-4, S-4, 1'	GS-0192-972	ND	ND	ND	ND	ND
B-4, S-5, 5'	GS-0192-973	ND	ND	ND	ND	ND
B-4, S-6, 10'	GS-0192-974	ND	ND	ND	ND	ND
B-4, S-7, 15'	GS-0192-975	ND	ND	ND	ND	ND
B-4, S-8, 20'	GS-0192-976	ND	ND	ND	ND	ND
B-4, S-9, 25'	GS-0192-977	ND	ND	ND	ND	ND
B-4, S-10, 30'	GS-0192-978	ND	ND	ND	ND	ND
B-4, S-11, 35'	GS-0192-979	ND	ND	ND	ND	ND
B-4, S-12, 40'	GS-0192-980	ND	ND	ND	ND	ND
B-4, S-13, 45'	GS-0192-981	ND	ND	ND	ND	ND
Detection Limits		0.5	0.5	0.5	0.5	0.1

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client: Franklin Environmental Matrix: Soil  
Project Name: Fleetwood Machine / N. Hollywood Date Received: 01/27/92  
Project#: N/A Date Analyzed: 01/30/92 - 02/06/92  
P.O.#: N/A GSAS Job#: 8258

**Total Petroleum Hydrocarbons / BTX & E**  
**8015m / EPA 8020**

Client Sample#	GSAS Sample#	Benzene ug/Kg (ppb)	Toluene ug/Kg (ppb)	Total Xylenes ug/Kg (ppb)	Ethyl Benzene ug/Kg (ppb)	TPH - 8015m Gasoline mg/Kg (ppm)
B-4, S-14, 50'	GS-0192-982	ND	ND	ND	ND	ND
B-3, S-15, 1'	GS-0192-983	ND	ND	ND	ND	ND
B-3, S-16, 5'	GS-0192-984	ND	ND	ND	ND	ND
B-3, S-17, 10'	GS-0192-985	ND	ND	ND	ND	ND
B-3, S-18, 15'	GS-0192-986	ND	ND	ND	ND	ND
B-3, S-19, 20'	GS-0192-987	ND	ND	ND	ND	ND
B-3, S-20, 25'	GS-0192-988	ND	ND	ND	ND	ND
B-3, S-21, 30'	GS-0192-989	ND	ND	ND	ND	ND
B-3, S-22, 35'	GS-0192-990	ND	ND	ND	ND	ND
B-3, S-23, 40'	GS-0192-991	ND	ND	ND	ND	ND
B-3, S-24, 50'	GS-0192-992	ND	ND	ND	ND	ND
B-3, S-25, 65'	GS-0192-993	ND	ND	ND	ND	ND
B-2, S-26, 1'	GS-0192-994	ND	ND	ND	ND	ND
Detected Limits		0.5	0.5	0.5	0.5	0.1

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client: Franklin Environmental Matrix: Soil  
Project Name: Fleetwood Machine / N. Hollywood Date Received: 01/27/92  
Project#: N/A Date Analyzed: 01/30/92 - 02/06/92  
P.O.#: N/A GSAS Job#: 8258

Total Petroleum Hydrocarbons / BTX & E  
8015m / EPA 8020

Client Sample#	GSAS Sample#	Benzene ug/Kg (ppb)	Toluene ug/Kg (ppb)	Total Xylenes ug/Kg (ppb)	Ethyl Benzene ug/Kg (ppb)	TPH - 8015m Gasoline mg/Kg (ppm)
B-2, S-27, 5'	GS-0192-995	ND	ND	ND	ND	ND
B-2, S-28, 10'	GS-0192-996	ND	ND	ND	ND	ND
B-2, S-29, 15'	GS-0192-997	ND	ND	ND	ND	ND
B-2, S-30, 20'	GS-0192-998	ND	ND	ND	ND	ND
B-2, S-31, 25'	GS-0192-999	ND	ND	ND	ND	ND
B-2, S-32, 30'	GS-0192-1000	ND	ND	ND	ND	ND
B-2, S-33, 40'	GS-0192-1001	ND	ND	ND	ND	ND
B-2, S-34, 50'	GS-0192-1002	ND	ND	ND	ND	ND
B-1, S-35, 1'	GS-0192-1003	ND	ND	ND	ND	ND
B-1, S-36, 5'	GS-0192-1004	ND	ND	ND	ND	ND
B-1, S-37, 10'	GS-0192-1005	ND	ND	ND	ND	ND
B-1, S-38, 15'	GS-0192-1006	ND	ND	ND	ND	ND
B-1, S-39, 20'	GS-0192-1007	ND	ND	ND	ND	ND
Detection Limits		0.5	0.5	0.5	0.5	0.1

ND: None Detected

Approved By: Dr. B. Gene Bennett



Client: Franklin Environmental Matrix: Soil  
Project Name: Fleetwood Machine / N. Hollywood Date Received: 01/27/92  
Project#: N/A Date Analyzed: 01/30/92 - 02/06/92  
P.O.#: N/A GSAS Job#: 8258

Total Petroleum Hydrocarbons / BTX & E  
8015m / EPA 8020

Client Sample#	GSAS Sample#	Benzene ug/Kg (ppb)	Toluene ug/Kg (ppb)	Total Xylenes ug/Kg (ppb)	Ethyl Benzene ug/Kg (ppb)	TPH - 8015m Gasoline mg/Kg (ppm)
B-1, S-40, 25'	GS-0192-1008	ND	ND	ND	ND	ND
B-1, S-41, 30'	GS-0192-1009	ND	ND	ND	ND	ND
B-1, S-42, 40'	GS-0192-1010	ND	ND	ND	ND	ND
B-1, S-43, 50'	GS-0192-1011	ND	ND	ND	ND	ND
B-5, S-44, 1'	GS-0192-1012	ND	ND	ND	ND	ND
B-5, S-45, 5'	GS-0192-1013	ND	ND	ND	ND	ND
B-5, S-46, 10'	GS-0192-1014	ND	ND	ND	ND	ND
B-5, S-47, 15'	GS-0192-1015	ND	ND	ND	ND	ND
B-5, S-48, 20'	GS-0192-1016	ND	ND	ND	ND	ND
B-5, S-49, 25'	GS-0192-1017	ND	ND	ND	ND	ND
B-5, S-50, 30'	GS-0192-1018	ND	ND	ND	ND	ND
B-5, S-51, 40'	GS-0192-1019	ND	ND	ND	ND	ND
B-5, S-52, 50'	GS-0192-1020	ND	ND	ND	ND	ND
	Method Blank	ND	ND	ND	ND	ND
		0.5	0.5	0.5	0.5	0.1

Detection Limits

ND: None Detected

Approved By: Dr. B. Gene Bennett



**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client: Franklin Environmental Matrix: Soil  
Project Name: Fleetwood Machine / N. Hollywood Date Received: 01/27/92  
Project#: N/A Date Analyzed: 02/03-06/92  
P.O.#: N/A GSAS Job#: 8258

**Total Petroleum Hydrocarbons (418.1)**

mg/Kg (ppm)

Client Sample#	GSAS Sample#	Amount Detected	Detection Limits
B-6, S-1, 1'	GS-0192-969	3	2
B-6, S-2, 5'	GS-0192-970	4	2
B-6, S-3, 10'	GS-0192-971	ND	2
B-4, S-4, 1'	GS-0192-972	22000	2
B-4, S-5, 5'	GS-0192-973	1500	2
B-4, S-6, 10'	GS-0192-974	820	2
B-4, S-7, 15'	GS-0192-975	21	2
B-4, S-8, 20'	GS-0192-976	2	2
B-4, S-9, 25'	GS-0192-977	ND	2
B-4, S-10, 30'	GS-0192-978	2	2
B-4, S-11, 35'	GS-0192-979	14	2
B-4, S-12, 40'	GS-0192-980	2	2
B-4, S-13, 45'	GS-0192-981	10	2

ND: None Detected

Approved By: Dr. B. Gene Bennett



**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	02/03-06/92
P.O.#:	N/A	GSAS Job#:	8258

**Total Petroleum Hydrocarbons (418.1)**

mg/Kg (ppm)

Client Sample#	GSAS Sample#	Amount Detected	Detection Limits
B-4, S-14, 50'	GS-0192-982	ND	2
B-3, S-15, 1'	GS-0192-983	31	2
B-3, S-16, 5'	GS-0192-984	24000	2
B-3, S-17, 10'	GS-0192-985	4500	2
B-3, S-18, 15'	GS-0192-986	5200	2
B-3, S-19, 20'	GS-0192-987	2600	2
B-3, S-20, 25'	GS-0192-988	12000	2
B-3, S-21, 30'	GS-0192-989	7	2
B-3, S-22, 35'	GS-0192-990	10	2
B-3, S-23, 40'	GS-0192-991	ND	2
B-3, S-24, 50'	GS-0192-992	ND	2
B-3, S-25, 65'	GS-0192-993	ND	2
B-2, S-26, 1'	GS-0192-994	ND	2

ND: None Detected

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*





**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client: Franklin Environmental      Matrix: Soil  
Project Name: Fleetwood Machine / N. Hollywood      Date Received: 01/27/92  
Project#: N/A      Date Analyzed: 02/03-06/92  
P.O.#: N/A      GSAS Job#: 8258

**Total Petroleum Hydrocarbons (418.1)**

mg/Kg (ppm)

Client Sample#	GSAS Sample#	Amount Detected	Detection Limits
B-2, S-27, 5'	GS-0192-995	4	2
B-2, S-28, 10'	GS-0192-996	3	2
B-2, S-29, 15'	GS-0192-997	10	2
B-2, S-30, 20'	GS-0192-998	3	2
B-2, S-31, 25'	GS-0192-999	6	2
B-2, S-32, 30'	GS-0192-1000	ND	2
B-2, S-33, 40'	GS-0192-1001	ND	2
B-2, S-34, 50'	GS-0192-1002	ND	2
B-1, S-35, 1'	GS-0192-1003	14000	2
B-1, S-36, 5'	GS-0192-1004	5700	2
B-1, S-37, 10'	GS-0192-1005	5000	2
B-1, S-38, 15'	GS-0192-1006	5800	2
B-1, S-39, 20'	GS-0192-1007	3400	2

ND: None Detected

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*

Client: Franklin Environmental Matrix: Soil  
 Project Name: Fleetwood Machine / N. Hollywood Date Received: 01/27/92  
 Project#: N/A Date Analyzed: 02/03-06/92  
 P.O.#: N/A GSAS Job#: 8258

Total Petroleum Hydrocarbons (418.1)

mg/Kg (ppm)

Client Sample#	GSAS Sample#	Amount Detected	Detection Limits
B-1, S-40, 25'	GS-0192-1008	17000	2
B-1, S-41, 30'	GS-0192-1009	8200	2
B-1, S-42, 40'	GS-0192-1010	ND	2
B-1, S-43, 50'	GS-0192-1011	2	2
B-5, S-44, 1'	GS-0192-1012	ND	2
B-5, S-45, 5'	GS-0192-1013	ND	2
B-5, S-46, 10'	GS-0192-1014	2600	2
B-5, S-47, 15'	GS-0192-1015	16	2
B-5, S-48, 20'	GS-0192-1016	ND	2
B-5, S-49, 25'	GS-0192-1017	12	2
B-5, S-50, 30'	GS-0192-1018	3	2
B-5, S-51, 40'	GS-0192-1019	2	2
B-5, S-52, 50'	GS-0192-1020	2	2
	Method Blank	ND	2

ND: None Detected

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client Name: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
Matrix: Soil  
Date Received: 01/27/92  
GSAS Job#: 8258

QA/QC - Summary

Parameter Spike Recovery % Duplicate RPD %

EPA 8010

Chloroform	107%	19%
1,1,1, Trichloroethane	77%	9%
Carbon Tetrachloride	88%	7%
Trichloroethene	123%	9%
Tetrachloroethylene	105%	9%

EPA 8010

Chloroform	113%	11%
1,1,1, Trichloroethane	85%	2%
Carbon Tetrachloride	95%	0%
Trichloroethene	129%	1%
Tetrachloroethylene	113%	0%

Approved By: Dr. B. Gene Bennett

*B. G. Bennett*



**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client Name: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
Matrix: Soil  
Date Received: 01/27/92  
GSAS Job#: 8258

QA/QC - Summary

Parameter	Spike Recovery %	Duplicate RPD %
<hr/>		
<u>BTX &amp; E (8020)</u>		
Benzene	101%	0%
Toluene	101%	1%
Total Xylenes	98%	2%
Ethyl Benzene	100%	2%
 <u>BTX &amp; E (8020)</u>		
Benzene	103%	4%
Toluene	104%	2%
Total Xylenes	105%	1%
Ethyl Benzene	103%	2%

-----  
Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client Name: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
Matrix: Soil  
Date Received: 01/27/92  
GSAS Job#: 8258

QA/QC - Summary

Parameter	Spike Recovery %	Duplicate RPD %
<hr/>		
<u>Total Petroleum Hydrocarbons</u>		
418.1	86%	0%
418.1	81%	4%
418.1	83%	16%

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client Name: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
Matrix: Soil  
Date Received: 01/27/92  
GSAS Job#: 8258

QA/QC - Summary

Parameter	Spike Recovery %	Duplicate RPD %
<hr/>		
<u>Total Petroleum Hydrocarbons</u>		
8015m - Gasoline	110%	1%
8015m - Gasoline	109%	11%

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



Client Name: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
Matrix: Soil  
Date Received: 01/27/92  
GSAS Job#: 8258

Surrogate Recoveries - 8010/8020

Client Sample#	GSAS Sample#	Recovery
B-6, S-1, 1'	GS-0192-969	137%
B-6, S-2, 5'	GS-0192-970	123%
B-6, S-3, 10'	GS-0192-971	89%
B-4, S-4, 1'	GS-0192-972	95%
B-4, S-5, 5'	GS-0192-973	122%
B-4, S-6, 10'	GS-0192-974	84%
B-4, S-7, 15'	GS-0192-975	98%
B-4, S-8, 20'	GS-0192-976	70%
B-4, S-9, 25'	GS-0192-977	158%
B-4, S-10, 30'	GS-0192-978	114%
B-4, S-11, 35'	GS-0192-979	90%
B-4, S-12, 40'	GS-0192-980	125%
B-4, S-13, 45'	GS-0192-981	112%

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*

Client Name: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
Matrix: Soil  
Date Received: 01/27/92  
GSAS Job#: 8258

QA/QC Data

Laboratory Control Standards

Calibration Check Compounds

<u>Parameter</u>	<u>Theoretical Value</u> (ppb)	<u>Actual Value</u> (ppb)	<u>Theoretical Value</u> (ppb)	<u>Actual Value</u> (ppb)
<b>8010</b>				
Chloroform	10	12.7	10	11.9
1,1,1, Trichloroethane	10	9.0	10	8.2
Carbon Tetrachloride	10	9.8	10	9.2
Trichloroethene	10	13.4	10	12.8
Tetrachloroethylene	10	11.9	10	11.1
<b>8020</b>				
Benzene	10	13.2	10	10.7
Toluene	10	13.2	10	10.6
Total Xylenes	30	40	30	32
Ethyl Benzene	10	13.1	10	10.5

<u>Parameter</u>	<u>Theoretical Value</u> (ppm)	<u>Actual Value</u> (ppm)	<u>Theoretical Value</u> (ppm)	<u>Actual Value</u> (ppm)
<b>8015m</b>				
Gasoline	1.0	1.02	1.0	0.99

Approved By: Dr. B. Gene Bennett

*B. G. Bennett*





**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client Name: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
Matrix: Soil  
Date Received: 01/27/92  
GSAS Job#: 8258

Surrogate Recoveries - 8010/8020

Client Sample#	GSAS Sample#	Recovery
B-4, S-14, 50'	GS-0192-982	136%
B-3, S-15, 1'	GS-0192-983	67%
B-3, S-16, 5'	GS-0192-984	86%
B-3, S-17, 10'	GS-0192-985	85%
B-3, S-18, 15'	GS-0192-986	85%
B-3, S-19, 20'	GS-0192-987	129%
B-3, S-20, 25'	GS-0192-988	105%
B-3, S-21, 30'	GS-0192-989	122%
B-3, S-22, 35'	GS-0192-990	92%
B-3, S-23, 40'	GS-0192-991	133%
B-3, S-24, 50'	GS-0192-992	80%
B-3, S-25, 65'	GS-0192-993	63%
B-2, S-26, 1'	GS-0192-994	105%

Approved By: Dr. B. Gene Bennett



**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client Name: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
Matrix: Soil  
Date Received: 01/27/92  
GSAS Job#: 8258

Surrogate Recoveries - 8010/8020

Client Sample#	GSAS Sample#	Recovery
B-2, S-27, 5'	GS-0192-995	93%
B-2, S-28, 10'	GS-0192-996	111%
B-2, S-29, 15'	GS-0192-997	116%
B-2, S-30, 20'	GS-0192-998	116%
B-2, S-31, 25'	GS-0192-999	66%
B-2, S-32, 30'	GS-0192-1000	114%
B-2, S-33, 40'	GS-0192-1001	78%
B-2, S-34, 50'	GS-0192-1002	74%
B-1, S-35, 1'	GS-0192-1003	78%
B-1, S-36, 5'	GS-0192-1004	101%
B-1, S-37, 10'	GS-0192-1005	95%
B-1, S-38, 15'	GS-0192-1006	83%
B-1, S-39, 20'	GS-0192-1007	96%

Approved By: Dr. B. Gene Bennett



Client Name: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
Matrix: Soil  
Date Received: 01/27/92  
GSAS Job#: 8258

Surrogate Recoveries - 8010/8020

Client Sample#	GSAS Sample#	Recovery
B-1, S-40, 25'	GS-0192-1008	89%
B-1, S-41, 30'	GS-0192-1009	110%
B-1, S-42, 40'	GS-0192-1010	135%
B-1, S-43, 50'	GS-0192-1011	118%
B-5, S-44, 1'	GS-0192-1012	130%
B-5, S-45, 5'	GS-0192-1013	84%
B-5, S-46, 10'	GS-0192-1014	84%
B-5, S-47, 15'	GS-0192-1015	85%
B-5, S-48, 20'	GS-0192-1016	95%
B-5, S-49, 25'	GS-0192-1017	90%
B-5, S-50, 30'	GS-0192-1018	61%
B-5, S-51, 40'	GS-0192-1019	115%
B-5, S-52, 50'	GS-0192-1020	92%
	Method Blank	96%

Approved By: Dr. B. Gene Bennett

**GOLDEN STATE/CAS**  
LABORATORIES, INC.

6925 CANOGA AVENUE,  
CANOGA PARK, CA 91304  
818 587 5550 ■ FAX # 818 587 5555

**Chain of Custody Record**  
**Analytical Services Request**

CLIENT NAME <i>Franklin Environmental</i>		ADDRESS/PHONE/FAX <i>4925 Whitsett #208 Valley Village, CA 91607</i>		(818) 766-4677		ANALYSES REQUESTED				GSAS JOB # <i>8258</i>			
PROJECT NAME/LOCATION <i>Fleetwood Machine / N. Hollywood</i>				CLIENT PROJECT NO.									
PROJECT MANAGER <i>Ali Mavrad</i>		SAMPLER(S) <i>Armen Minassian</i>		P.O. NO.									
SAMPLE IDENTIFICATION NO.	DATE	TIME	LAB SAMPLE NO.	SAMPLE MATRIX	8010	8020	8015	418.1			REQUESTED TURNAROUND TIME	REMARKS	
<i>B-6, S-1, 1'</i>	<i>1/25/92</i>	<i>8.15</i>	<i>0192-969</i>	<i>Soil</i>	X	X	X	X				<i>Run 8010/8020/8015</i>	
<i>B-6, S-2, 5'</i>		<i>8.25</i>	<i>970</i>		X	X	X	X				<i>first as per</i>	
<i>B-6, S-3, 10'</i>		<i>9.05</i>	<i>971</i>		X	X	X	X				<i>Rwq CB letter</i>	
<i>B-4, S-4, 1'</i>		<i>10.10</i>	<i>972</i>		X	X	X	X				<i>attached 1/8/92</i>	
<i>B-4, S-5, 5'</i>		<i>10.20</i>	<i>973</i>		X	X	X	X				<i>followed by 418.1</i>	
<i>B-4, S-6, 10'</i>		<i>10.28</i>	<i>974</i>		X	X	X	X				<i>Detection Limit</i>	
<i>B-4, S-7, 15'</i>		<i>10.35</i>	<i>975</i>									<i>should be follow</i>	
<i>B-4, S-8, 20'</i>		<i>10.48</i>	<i>976</i>		X	X	X	X				<i>as set by Rwq CB</i>	
<i>B-4, S-9, 25'</i>		<i>11.02</i>	<i>977</i>									<i>letter above.</i>	
<i>B-4, S-10, 30'</i>		<i>11.15</i>	<i>978</i>		X	X	X	X					
<i>B-4, S-11, 35'</i>		<i>11.28</i>	<i>979</i>									<i>Analyze unmarked</i>	
<i>B-4, S-12, 40'</i>		<i>11.39</i>	<i>980</i>		X	X	X	X				<i>samples if detection is</i>	
RELINQUISHED BY: (Signature) <i>Armen G. Minassian</i>				DATE <i>1-27-92</i>	TIME <i>12:35</i>	RECEIVED BY: (Signature) <i>Frank Larnack</i>				DATE <i>1-27-92</i>	TIME <i>12:35</i>	<i>Bunig</i>	
RELINQUISHED BY: (Signature) <i>Frank Larnack</i>				DATE <i>1/27/92</i>	TIME <i>4:30pm</i>	RECEIVED BY: (Signature) <i>Vali Stee</i>				DATE <i>1/27/92</i>	TIME <i>4:30pm</i>		
RELINQUISHED BY: (Signature)				DATE	TIME	RECEIVED BY: (Signature)				DATE	TIME		
SEND INVOICE TO:						WHITE COPY: Accompanies Samples YELLOW COPY: Sampler							

**GOLDEN STATE/CAS**  
LABORATORIES, INC.

6925 CANOGA AVENUE,  
CANOGA PARK, CA 91304  
818 587 5550 ■ FAX # 818 587 5555

**Chain of Custody Record**  
**Analytical Services Request**

CLIENT NAME <i>Franklin Environmental</i>		ADDRESS/PHONE/FAX <i>4925 Whitsett #207 Valley Village, CA 91607</i>		ANALYSES REQUESTED  <i>8010 8020 8015 418.5</i>		GSAS JOB # <i>82598</i>			
PROJECT NAME/LOCATION <i>Fleetwood Machine / N. Hollywood</i>		CLIENT PROJECT NO.							
PROJECT MANAGER <i>Ali Mavrad</i>		SAMPLER(S) <i>Armen Mirassian</i>		P.O. NO.					
SAMPLE IDENTIFICATION NO.	DATE	TIME	LAB SAMPLE NO.	SAMPLE MATRIX			REQUESTED TURNAROUND TIME	REMARKS	
<i>B-4, S-13, 45'</i>	<i>1-25-92</i>	<i>12.10</i>	<i>0192- 981</i>	<i>Soil</i>					
<i>B-4, S-14, 50'</i>		<i>12.25</i>	<i>982</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>B-3, S-15, 1'</i>		<i>1.45</i>	<i>983</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>B-3, S-16, 5'</i>		<i>1.52</i>	<i>984</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>B-3, S-17, 10'</i>		<i>1.59</i>	<i>985</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>B-3, S-18, 15'</i>		<i>2.10</i>	<i>986</i>						
<i>B-3, S-19, 20'</i>		<i>2.21</i>	<i>987</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>B-3, S-20, 25'</i>		<i>2.38</i>	<i>988</i>						
<i>B-3, S-21, 30'</i>		<i>2.50</i>	<i>989</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>B-3, S-22, 35'</i>		<i>3.10</i>	<i>990</i>						
<i>B-3, S-23, 40'</i>		<i>3.25</i>	<i>991</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>B-3, S-24, 50'</i>	<i>✓</i>	<i>3.46</i>	<i>992</i>	<i>✓</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	
RELINQUISHED BY: (Signature) <i>Armen G. Mirassian</i>			DATE <i>1-27-92</i>	TIME <i>12:35</i>	RECEIVED BY: (Signature) <i>Frank Farnsworth</i>			DATE <i>1-27-92</i>	TIME <i>12:35</i>
RELINQUISHED BY: (Signature) <i>Frank Farnsworth</i>			DATE <i>1-27-92</i>	TIME <i>4:30pm</i>	RECEIVED BY: (Signature) <i>Ali Mavrad</i>			DATE <i>1-27-92</i>	TIME <i>4:30pm</i>
RELINQUISHED BY: (Signature)			DATE	TIME	RECEIVED BY: (Signature)			DATE	TIME
SEND INVOICE TO:					WHITE COPY: Accompanies Samples YELLOW COPY: Sampler				

**GOLDEN STATE/CAS**  
LABORATORIES, INC.

6925 CANOGA AVENUE,  
CANOGA PARK, CA 91304  
818 587 5550 ■ FAX # 818 587 5555

**Chain of Custody Record**  
**Analytical Services Request**

CLIENT NAME <i>Franklin Environmental</i>		ADDRESS/PHONE/FAX <i>4925 Whitsett #207 Valley Village, CA 91607</i>			(818) 966-4627		ANALYSES REQUESTED				GSAS JOB # <i>8258</i>		
PROJECT NAME/LOCATION <i>Fleetwood Machine / N. Hollywood</i>					CLIENT PROJECT NO.			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8010</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8020</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8015</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">418.1</div> </div>					
PROJECT MANAGER <i>At: Maurad</i>		SAMPLER(S) <i>Armen Minassian</i>		P.O. NO.									
SAMPLE IDENTIFICATION NO.		DATE	TIME	LAB SAMPLE NO.	SAMPLE MATRIX								
<i>B-3, S-25, 65'</i>	<i>1-25-92</i>	<i>4.46</i>	<i>0192-993</i>	<i>Soil</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>B-2, S-26, 1'</i>	<i>1-26-92</i>	<i>8.15</i>	<i>994</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>B-2, S-27, 5'</i>		<i>8.22</i>	<i>995</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>B-2, S-28, 10'</i>		<i>8.36</i>	<i>996</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>B-2, S-29, 15'</i>		<i>8.48</i>	<i>997</i>										
<i>B-2, S-30, 20'</i>		<i>9.03</i>	<i>998</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>B-2, S-31, 25'</i>		<i>9.20</i>	<i>999</i>										
<i>B-2, S-32, 30'</i>		<i>9.42</i>	<i>1000</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>B-2, S-33, 40'</i>		<i>9.59</i>	<i>1001</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>B-2, S-34, 50'</i>		<i>10.20</i>	<i>1002</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
					<i>[Signature]</i>								
RELINQUISHED BY: (Signature) <i>Armen G. Minassian</i>					DATE <i>1-27-92</i>	TIME <i>12.35</i>	RECEIVED BY: (Signature) <i>Frank Farnsworth</i>					DATE <i>1-27-92</i>	TIME <i>12:35</i>
RELINQUISHED BY: (Signature) <i>Frank Farnsworth</i>					DATE <i>1-27-92</i>	TIME <i>4:30pm</i>	RECEIVED BY: (Signature) <i>Able</i>					DATE <i>1-27-92</i>	TIME <i>4:30pm</i>
RELINQUISHED BY: (Signature)					DATE	TIME	RECEIVED BY: (Signature)					DATE	TIME
SEND INVOICE TO:													
WHITE COPY: Accompanies Samples YELLOW COPY: Sampler													

**GOLDEN STATE/CAS**  
LABORATORIES, INC.

6925 CANOGA AVENUE,  
CANOGA PARK, CA 91304  
818 587 5550 ■ FAX # 818 587 5555

**Chain of Custody Record**  
**Analytical Services Request**

CLIENT NAME <i>Franklin Environmental</i>		ADDRESS/PHONE/FAX <i>4925 Whitsett #207 Valley Village, CA 91607 (818) 766-4827</i>		ANALYSES REQUESTED				GSAS JOB # <i>8258</i>		
PROJECT NAME/LOCATION <i>Fleetwood Machine / N. Hollywood</i>		CLIENT PROJECT NO.		<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8010</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8020</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8015</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">418.1</div> </div>						
PROJECT MANAGER <i>Al. Maurad</i>		SAMPLER(S) <i>Armen Minassian</i>								P.O. NO.
SAMPLE IDENTIFICATION NO.	DATE	TIME	LAB SAMPLE NO.	SAMPLE MATRIX					REQUESTED TURNAROUND TIME	REMARKS
<i>B-1, S-35, 1'</i>	<i>1-26-92</i>	<i>11.10</i>	<del>1012</del>	<i>Soil</i>	X	X	X	X		<i>0192-1003</i>
<i>B-1, S-36, 5'</i>		<i>11.20</i>	<del>1013</del>		X	X	X	X		<i>1004</i>
<i>B-1, S-37, 10'</i>		<i>11.40</i>	<del>1014</del>		X	X	X	X		<i>1005</i>
<i>B-1, S-38, 15'</i>		<i>11.55</i>	<del>1015</del>							<i>1006</i>
<i>B-1, S-39, 20'</i>		<i>12.18</i>	<del>1016</del>		X	X	X	X		<i>1007</i>
<i>B-1, S-40, 25'</i>		<i>12.43</i>	<del>1017</del>							<i>1008</i>
<i>B-1, S-41, 30'</i>		<i>12.59</i>	<del>1018</del>		X	X	X	X		<i>1009</i>
<i>B-1, S-42, 40'</i>		<i>1.21</i>	<del>1019</del>		X	X	X	X		<i>1010</i>
<i>B-1, S-43, 50'</i>		<i>1.38</i>	<del>1020</del>		X	X	X	X		<i>1011</i>
RELINQUISHED BY: (Signature) <i>Armen G. Minassian</i>			DATE <i>1-27-92</i>	TIME <i>12.35</i>	RECEIVED BY: (Signature) <i>Frank Farnsworth</i>			DATE <i>1-27-92</i>	TIME <i>12:35</i>	
RELINQUISHED BY: (Signature) <i>Frank Farnsworth</i>			DATE <i>1-27-92</i>	TIME <i>4:30pm</i>	RECEIVED BY: (Signature) <i>Whe. Stet</i>			DATE <i>1-27-92</i>	TIME <i>4:30pm</i>	
RELINQUISHED BY: (Signature)			DATE	TIME	RECEIVED BY: (Signature)			DATE	TIME	
SEND INVOICE TO:					WHITE COPY: Accompanies Samples  YELLOW COPY: Sampler					

**GOLDEN STATE/CAS**  
LABORATORIES, INC.

6925 CANOGA AVENUE,  
CANOGA PARK, CA 91304  
818 587 5550 ■ FAX # 818 587 5555

**Chain of Custody Record**  
**Analytical Services Request**

CLIENT NAME <i>Franklin Environmental</i>		ADDRESS/PHONE/FAX <i>4925 Whitsett #207 Valley Village, CA 91607</i>				ANALYSES REQUESTED <i>8010 8020 8015 418.1</i>				GSAS JOB # <i>8258</i>		
PROJECT NAME/LOCATION <i>Fleetwood Machine/N. Hollywood</i>		CLIENT PROJECT NO.										
PROJECT MANAGER <i>At: Mourad</i>		SAMPLER(S) <i>Armen Minassian</i>		P.O. NO.								
SAMPLE IDENTIFICATION NO.	DATE	TIME	LAB SAMPLE NO.	SAMPLE MATRIX							REQUESTED TURNAROUND TIME	REMARKS
<i>B-5, S-44, 1'</i>	<i>1-26-92</i>	<i>2.15</i>	<del><i>G12-1103</i></del>	<i>Soil</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>0192-1012</i>
<i>B-5, S-45, 5'</i>		<i>2.23</i>	<del><i>G12-1103</i></del>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>1013</i>
<i>B-5, S-46, 10'</i>		<i>2.31</i>	<del><i>G12-1103</i></del>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>1014</i>
<i>B-5, S-47, 15'</i>		<i>2.43</i>	<del><i>G12-1103</i></del>									<i>1015</i>
<i>B-5, S-48, 20'</i>		<i>2.54</i>	<del><i>G12-1103</i></del>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>1016</i>
<i>B-5, S-49, 25'</i>		<i>3.20</i>	<del><i>G12-1103</i></del>									<i>1017</i>
<i>B-5, S-50, 30'</i>		<i>3.41</i>	<del><i>G12-1103</i></del>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>1018</i>
<i>B-5, S-51, 40'</i>		<i>4.05</i>	<del><i>G12-1103</i></del>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>1019</i>
<i>B-5, S-52, 50'</i>		<i>4.41</i>	<del><i>G12-1103</i></del>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>1020</i>
RELINQUISHED BY: (Signature) <i>Armen G. Minassian</i>			DATE <i>1-27-92</i>	TIME <i>12:35</i>	RECEIVED BY: (Signature) <i>Frank Farnsworth</i>			DATE <i>12:35</i>	TIME <i>1-27-92</i>			
RELINQUISHED BY: (Signature) <i>Frank Farnsworth</i>			DATE <i>1-27-92</i>	TIME <i>4:30pm</i>	RECEIVED BY: (Signature) <i>John Shea</i>			DATE <i>1/27/92</i>	TIME <i>4:30pm</i>			
RELINQUISHED BY: (Signature)			DATE	TIME	RECEIVED BY: (Signature)			DATE	TIME			
SEND INVOICE TO:					WHITE COPY: Accompanies Samples  YELLOW COPY: Sampler							





Client: Franklin Environmental  
Project Name: Fleetwood Machine / N. Hollywood  
Project#: N/A  
P.O.#: N/A

Matrix: Soil  
Date Received: 01/27/92  
Date Analyzed: 01/30/92 - 02/06/92  
GSAS Job#: 8258

**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-6, S-1, 1'	B-6, S-2, 5'	B-6, S-3, 10'	Detection
GSAS Sample#:	GS-0192-969	GS-0192-970	GS-0192-971	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett

Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

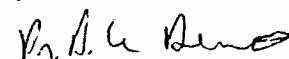
ug/Kg (ppb)

Client Sample#:	B-3, S-16, 5' **	B-3, S-17, 10' **	B-3, S-18, 15' **	Detection
GSAS Sample#:	GS-0192-984	GS-0192-985	GS-0192-986	Limits
Chloromethane	< 500	< 250	< 50	0.5
Bromomethane	< 500	< 250	< 50	0.5
Vinyl Chloride	< 500	< 250	< 50	0.5
Dichlorodifluoromethane	< 500	< 250	< 50	0.5
Chloroethane	< 500	< 250	< 50	0.5
Methylene Chloride	< 500	< 250	< 50	5.0
Trichlorofluoromethane	< 500	< 250	< 50	0.5
1,1-Dichloroethylene	720	< 250	< 50	0.5
1,1-Dichloroethane	< 500	< 250	< 50	0.5
trans-1,2-Dichloroethylene	< 500	< 250	< 50	0.5
cis-1,2-Dichloroethylene	< 500	< 250	< 50	0.5
Chloroform	< 500	< 250	< 50	0.5
1,2-Dichloroethane	< 500	< 250	< 50	0.5
1,1,1-Trichloroethane	16000	1700	730	0.5
Carbon Tetrachloride	< 500	< 250	< 50	0.5
Bromodichloromethane	< 500	< 250	< 50	0.5
1,2-Dichloropropane	< 500	< 250	< 50	0.5
cis-1,3-Dichloropropylene	< 500	< 250	< 50	0.5
1,1,2-Trichloroethylene	< 500	< 250	< 50	0.5
Dibromochloromethane	< 500	< 250	< 50	0.5
1,1,2-Trichloroethane	< 500	< 250	< 50	0.5
trans-1,3-Dichloropropylene	< 500	< 250	< 50	0.5
2-Chloroethylvinyl Ether	< 500	< 250	< 50	0.5
Bromoform	< 500	< 250	< 50	0.5
1,1,2,2-Tetrachloroethane	< 500	< 250	< 50	0.5
Tetrachloroethene	16000	3000	2500	5.0
Chlorobenzene	< 500	< 250	< 50	0.5
1,3-Dichlorobenzene	< 500	< 250	< 50	0.5
1,2-Dichlorobenzene	< 500	< 250	< 50	0.5
1,4-Dichlorobenzene	< 500	< 250	< 50	0.5

\*\* Detection limit has been raised due to matrix interferences.

ND: None Detected

Approved By: Dr. B. Gene Bennett





**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-4, S-13, 45'	B-4, S-14, 50'	B-3, S-15, 1'	Detection
GSAS Sample#:	GS-0192-981	GS-0192-982	GS-0192-983	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	56	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	25	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett

*B. B. Bennett*



**GOLDEN STATE/CAS**  
LABORATORIES, INC.

Client:	Franklin Environmental	Matrix:	Soil
Project Name:	Fleetwood Machine / N. Hollywood	Date Received:	01/27/92
Project#:	N/A	Date Analyzed:	01/30/92 - 02/06/92
P.O.#:	N/A	GSAS Job#:	8258

**HALOGENATED VOLATILE ORGANICS (8010)**

ug/Kg (ppb)

Client Sample#:	B-4, S-10, 30'	B-4, S-11, 35'	B-4, S-12, 40'	Detection
GSAS Sample#:	GS-0192-978	GS-0192-979	GS-0192-980	Limits
Chloromethane	ND	ND	ND	0.5
Bromomethane	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	0.5
Dichlorodifluoromethane	ND	ND	ND	0.5
Chloroethane	ND	ND	ND	0.5
Methylene Chloride	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	0.5
1,1-Dichloroethylene	ND	ND	ND	0.5
1,1-Dichloroethane	ND	ND	ND	0.5
trans-1,2-Dichloroethylene	ND	ND	ND	0.5
cis-1,2-Dichloroethylene	ND	ND	ND	0.5
Chloroform	ND	ND	ND	0.5
1,2-Dichloroethane	ND	ND	ND	0.5
1,1,1-Trichloroethane	ND	ND	ND	0.5
Carbon Tetrachloride	ND	ND	ND	0.5
Bromodichloromethane	ND	ND	ND	0.5
1,2-Dichloropropane	ND	ND	ND	0.5
cis-1,3-Dichloropropylene	ND	ND	ND	0.5
1,1,2-Trichloroethylene	ND	ND	ND	0.5
Dibromochloromethane	ND	ND	ND	0.5
1,1,2-Trichloroethane	ND	ND	ND	0.5
trans-1,3-Dichloropropylene	ND	ND	ND	0.5
2-Chloroethylvinyl Ether	ND	ND	ND	0.5
Bromoform	ND	ND	ND	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.5
Tetrachloroethene	ND	ND	ND	5.0
Chlorobenzene	ND	ND	ND	0.5
1,3-Dichlorobenzene	ND	ND	ND	0.5
1,2-Dichlorobenzene	ND	ND	ND	0.5
1,4-Dichlorobenzene	ND	ND	ND	0.5

ND: None Detected

Approved By: Dr. B. Gene Bennett

SUBSURFACE SOIL INVESTIGATION REPORT

PREPARED BY MACHINE PRODUCTIONS

10000 EIGHTY-THREE RD



10000 EIGHTY-THREE RD

HOCHMANN SALVAGE AND REPAIR

10000 EIGHTY-THREE RD, AIR FORCE WEST

BEVERLY HILLS, CA

10000 EIGHTY-THREE RD

JANNEY AND ASSOCIATES

10000 EIGHTY-THREE RD

June 1991

This report, including all related activities, was prepared or conducted under the direct supervision of T. K. Carberry REA, president of Carberry and Associates. Our professional services have been performed using that degree of skill and care ordinarily exercised under similar circumstances by other environmental engineering companies practicing in this field. The scope of work, subsequent test performed, and information contained in this report are based on information supplied by individuals of the company for which this Environmental Assessment has been conducted. No other warranty, expressed or implied, is made as to the professional advice in this report.



Terrance K. Carberry REA  
Project Manager  
(Registration # 00145)



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## **2.0 SITE DESCRIPTION**

Three structures are located on-site, one 8,250 square foot building which is used for machining operations and office space, the other two structures, 2,000 square feet and 1,200 square feet are used for machine shop, degreasing, and deburring of machined parts. A steel structure located along the north property line is used to collect cuttings from the machining operations.

The machine shop/office building is fronted by Vanowen Street while the machine shop/deburring area is located along the northern boundary of the property. The machine cuttings storage bins are located by the northeast corner of the facility.

There is a utility right-of-way easement associated with the subject property. Specifically, an underground telephone easement granted to Pacific Telephone and Telegraph Company, described as the southerly 18 feet of the easterly 159.72 feet of the westerly 279.72 feet (as measured to the centerline of Farmdale Avenue 60 feet wide) of the westerly one-half of the easterly one-half of Lot 74 of the Lankershim Ranch Land and Water Company's subdivision of the Ex-Mission de San Fernando, in the City of Los Angeles, as per map recorded in Book 31 at pages 39 to 44 inclusive of Miscellaneous Records in the Office of the County Recorder of said County, EXCEPTING THEREFROM any portion lying within Vanowen Street as it now exists.

### **2.1 Topography and Sloping:**

The subject property is at an approximate elevation of 708 feet above mean sea level, with a gentle surface gradient to the southeast.

### **2.2 Regional Geology:**

The subject site is located in the eastern San Fernando Valley, a recent alluvial basin which contains sediments of poorly sorted, un-consolidated, coalescing alluvial fan deposits of sand, gravel and clay. Generally undissected and

undeformed. (State of California, water rights board, San Fernando Valley Reference, 1960.)

### **2.2.1 Site Geology:**

Soils penetrated during the investigation on April 16, 1991, consisted of poorly- and well-graded, predominantly fine to gravelly-sands, with minor amounts of sand-silt and sand-clay mixtures. Numerous cobbles were encountered at 4 feet beneath land surface in the area of Boring FB-5, which resulted in four attempts to complete the boring. A lithologic log of all the borings, using the Unified Soil Classification System (USCS), is included as Appendix A of this report.

### **2.3 Regional Hydrology:**

The subject site lies within the San Fernando Valley ground-water basin. The basin is bounded on the north and northwest by the Santa Susana Mountains, on the northeast by the San Gabriel Mountains, on the east by the Verdugo Mountains, the southeast by the San Rafael Hills, on the west by the Simi Hills, and on the south by the Santa Monica Mountains. The depth to ground-water in the vicinity (LADWP well #3810 <sup>1</sup>) of the subject site is 467.7 feet above mean sea level (LADWP October 4, 1990). Using these data, ground water is estimated to be 240.3 feet beneath the subject site. The general regional hydraulic gradient favors ground water flow in a southeasterly direction towards the Los Angeles County Flood Control District, at the Los Angeles River Narrows. (L.A. DWP, Operable Unit Feasibility Study for the North Hollywood Well Field Area of the North Hollywood-Burbank NPL Site, San Fernando Valley Groundwater Basin, November 1986.)

---

<sup>1</sup> Unless otherwise noted, the ground water flow direction has been inferred from a review of regional topographic data. Site specific conditions may vary due to a variety of factors, including geologic anomalies, utilities, nearby pumping wells and other developments.

In view of the above considerations, the Phase I report concluded that the subject site does present a risk in terms of the potential presences of subsurface soil contamination. In addition there is also a potential for hazardous waste to be discharged into receptors (stormdrain) which threaten state waterways, all as a result of poor housekeeping with respect to the storage and handling of hazardous materials/waste. As a result of the findings described in the Phase I report, an analytical testing program was recommended with regard to the areas of uncertainties. The work activities recommended included implementation of an analytical testing program of the subsurface soil conditions in those areas where stains were observed, specifically in the oil storage area, the vicinity of the trash receptacle, adjacent to the machine cutting collection bins and adjacent to the vapor degreaser. A follow-up visit to the site on January 4, 1990, revealed that the previously observed stain by the solvent parts washer (now removed) located inside the main machine shop, was no longer visible. Mr. Cooke, President of Fleetwood Machine Products, Inc, explained that the stain was removed with oil absorbent, after relocating the solvent parts washer to an adjacent building.

Authorization was given on March 8, 1991, to conduct a subsurface soil investigation consisting of drilling 5-each, 20 foot soil borings located in the rear of the facility.

This report presents the results of the work conducted on April 16, 1991. at the Fleetwood Machine Products Facility, located at 11447 Vanowen Street, North Hollywood, Ca.

### **3.0 WORK PLAN**

This assessment has been separated into the following tasks:

**TASK (1) SUBSURFACE SOIL INVESTIGATION**

**TASK (2) LABORATORY ANALYSES**

**TASK (3) REPORT**

The following discussion provides the details of each task.

#### **3.1 Task 1 Subsurface Soil Investigation**

##### **3.1.1 Oil Storage Area:**

On April 16, 1991, two (2) exploratory soil borings were drilled in the area where new and waste oil are stored, and adjacent to a semi-buried waste oil drum. The two borings were completed to a depth of 20 feet below land surface with depth-specific, undisturbed soil samples collected at 1, 5, 10, 15 and 20 feet below land surface. Boring FB-1 was drilled at a 12 degree from vertical angle towards the northern property line. Boring FB-2 was drilled vertical, adjacent to the semi-buried waste oil drum.

##### **3.1.2 Machine Cuttings, Collection Bins:**

On April 16, 1991, one exploratory soil boring was drilled approximately 5 feet south of the machine cuttings collection bins. Boring FB-3 was completed to a depth of 20 feet below land surface with depth-specific, undisturbed soil samples collected at 1, 5, 10, 15 and 20 feet below land surface.

##### **3.1.3 Vapor Degreaser Area:**

On April 16, 1991, one exploratory soil boring was drilled to a depth of 8 feet below land surface, approximately 2 feet south and east of the vapor degreaser. Due to the height of the overhead roof, it was necessary to drill Boring FB-4 with an AMS hand auger, which meet refusal at a depth of 8 feet

below land surface. Depth-specific, undisturbed soil samples were collected at 1, 5 and 8 feet below land surface.

#### **3.1.4 North End Of Driveway:**

On April 16, 1991, Three attempts were made to complete exploratory soil boring FB-5 to a depth of 20 feet. The first attempt was approximately 5 feet southwest of the trash receptacle which meet refusal at 4 feet below land surface. The second and third attempt were approximately 10 and 18 feet respectively southwest of the trash receptacle, which also meet refusal at 4 feet below land surface; however, a single depth-specific, undisturbed soil sample was collected at 1 foot below land surface on the third attempt.

#### **3.2 Soil Borings:**

Borings FB-1, FB-2, FB-3 and FB-5 were accomplished with a ATV-mounted Mobile Drilling Company Simko 2400SK-1, hollow-stem auger. The augers are five (5) feet in length and have an outside diameter (O.D.) of 5.50 inches and an inside diameter (I.D.) of 3.25 inches. Boring FB-4 was accomplished with an AMS hand auger which uses a sand, bucket-type auger. The AMS bucket-type auger is approximately 3 inches O.D. and approximately 6 inches long. Extensions 5 feet in length are attached to the auger as the boring progresses. Soil samples were obtained as described above, except that the Modified California Sampler was lowered to the target depth through the boring, and a slide-hammer was attached to the end of the drive-rods which drove the Modified California Sampler below and ahead of where the auger stopped. No lubricants were used on any of the downhole equipment so as to prevent any interference which may affect the results of the chemical analyses performed on the soil samples collected. Before the augers, drilling rig and associated equipment are mobilized to the site, they are thoroughly steam cleaned. The pre-cleaned augers and cutting tips are used only once per boring so as to prevent any cross contamination between borings. The Modified California Sampler and inner rings were cleaned on-site by scrubbing with Alconox or equivalent detergent, flushed with tap water and allowed to dry between each use.

**FINAL REPORT,  
SUBSURFACE SOIL INVESTIGATION  
FLEETWOOD MACHINE PRODUCTS, INC.  
11447 VANOWEN STREET  
NORTH HOLLYWOOD, CALIFORNIA 91605**

**1.0 INTRODUCTION**

In October, 1990, a Phase I Environmental Site Assessment was conducted on the subject property. The results of that assessment are described in a report dated November 16, 1990, submitted to Hachman, Salkins and Deroy, 9100 Wilshire Blvd., Seventh Floor-West Tower, Beverly Hills, California.

The results of the Phase I Assessment revealed that the hazardous waste storage area located by the northeast corner of the property has discolored asphaltic paving, suggesting that releases have occurred over the course of time. The soil on the adjoining property directly north of the storage area is discolored, indicating that some contamination may have migrated off-site due to the lack of a continuous berm surrounding the storage area. Additionally, the integrity of the semi-berm wall in the hazardous material storage area has been damaged, making a serious potential for waste oil to escape and infiltrate the stormdrain catch basin located in the path of surface runoff. Minor discoloration of asphaltic paving was observed beneath and down gradient of the trash receptacle located at the west boundary of the property, suggesting that liquid leaking from the trash receptacle may have infiltrated the subsurface. In addition, stains were observed surrounding a solvent parts washer inside the main machine shop, indicating that spill or leaks have occurred. Uncertainties exist with respect to the integrity of the drum semi-buried below grade in the hazardous material/waste storage area and the area beneath the chip collection bins because visual inspection is not possible.

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
BORNG FB-1

All concentrations are in ug/kg (ppb)

Sample Number	-1	-5	-10	-15	-20
EPA Method 8240 Analyte					
Chloromethane	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND
Methalene Chloride	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethene	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	110	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND
Tetrachloroethene	490	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND

## 4.0 FINDINGS

### 4.1 Boring FB-1:

Table 1 presents a summary of the analytical results from the depth-specific, undisturbed soil samples collected from Boring FB-1. Sample codes FB1-1 (one-foot), FB1-5 and so on, represent the depth that the samples were obtained. The analytical results of the soil samples obtained from FB1-1 contained 110 micrograms per kilograms (ppb) of 1,1,1-trichloroethane (TCA), 490 ppb of tetrachloroethene (PCE) and 6400 milligrams per kilograms (ppm) of total petroleum hydrocarbons (TPH). Soil sample FB1-10 and FB1-20 contained 230 and 180 ppm respectively of TPH.



**TABLE 1**  
Continued

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-10	-15	-20
EPA Method 418.1 Analyte					
Total Petroleum Hydrocarbons	6400	ND	230	ND	180

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-10	-15	-20
EPA Method 8015M Analyte					
Paint Thinner & Oil C8 - C30	NT	NT	NT	NT	NT
Paint Thinner C8 - C12	NT	NT	NT	NT	NT

ND = NOT DETECTED NT = NOT TESTED NS = NOT SAMPLED

## 4.2 Boring FB-2

Table 2 presents a summary of the analytical results from the depth-specific, undisturbed soil samples collected from Boring FB-2. Sample codes FB2-1 (one-foot), FB2-5 and so on, represent the depth that the samples were obtained. The analytical test results of the soil sample collected at 1, 5, 15 and 20 feet detected the presence of 1,1-dichloroethane increasing in depth with concentrations of 12, 16, 17 and 65 ppb respectively. Acetone was detected in the 20 foot soil sample at a concentration of 260 ppb. 1,1,1-trichloroethane was detected in all soil samples ranging from 83 ppb to 230 ppb. PCE was detected in all soil samples in increasing concentrations with depth, from 490 ppb at 1 foot to 1500 ppb at 20 feet. Total xylenes was also detected with a concentration of 49 ppb in the 20 foot soil sample. TPH was detected in the soil samples obtained from Boring FB-2 in concentrations ranging from 59 ppm to 17000 ppm. Due to the matrix interferences of high petroleum hydrocarbons in the 20 foot sample, EPA Method 8015M was prescribed to characterize the suspected fuel hydrocarbon. EPA Method 8015M detected 9700 ppm of paint thinner and oil in sample FB2-20.

TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
BORNG FB-2

All concentrations are in ug/kg (ppb)

Sample Number	-1	-5	-10	-15	-20
EPA Method 8240 Analyte					
Chloromethane	ND	ND	ND	ND	<50
Vinyl Chloride	ND	ND	ND	ND	<50
Bromomethane	ND	ND	ND	ND	<50
Chloroethane	ND	ND	ND	ND	<50
Trichlorofluoromethane	ND	ND	ND	ND	<25
Acetone	ND	ND	ND	ND	260
1,1-Dichloroethene	ND	ND	ND	ND	<25
Carbon Disulfide	ND	ND	ND	ND	<25
Methalene Chloride	ND	ND	ND	ND	<25
Trans 1,2-Dichloroethene	ND	ND	ND	ND	<25
1,1-Dichloroethane	12	16	ND	17	65
Vinyl Acetate	ND	ND	ND	ND	<250
2-Butanone (MEK)	ND	ND	ND	ND	<250
Chloroform	ND	ND	ND	ND	<25
1,2-Dichloroethane	ND	ND	ND	ND	<25
1,1,1-Trichloroethane	96	120	83	120	230
Benzene	ND	ND	ND	ND	<25
Carbon Tetrachloride	ND	ND	ND	ND	<25
1,2-Dichloropropane	ND	ND	ND	ND	<25
Trichloroethene	ND	ND	ND	ND	<25
Bromodichloromethane	ND	ND	ND	ND	<25
Cis-1,3-Dichloropropene	ND	ND	ND	ND	<25
4-Methyl-2-Pentanone	ND	ND	ND	ND	<250
Trans-1,3-Dichloropropene	ND	ND	ND	ND	<25
1,1,2-Trichloroethane	ND	ND	ND	ND	<25
Toluene	ND	ND	ND	ND	<25
Dibromochloromethane	ND	ND	ND	ND	<25
2-Hexanone	ND	ND	ND	ND	<250
Tetrachloroethene	490	590	510	730	1500
Chlorobenzene	ND	ND	ND	ND	<25
Ethylbenzene	ND	ND	ND	ND	<25
Bromoform	ND	ND	ND	ND	<25
Styrene	ND	ND	ND	ND	<25
Total Xylenes	ND	ND	ND	ND	49
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	<25
1,3-Dichlorobenzene	ND	ND	ND	ND	<25
1,4-Dichlorobenzene	ND	ND	ND	ND	<25
1,2-Dichlorobenzene	ND	ND	ND	ND	<25

TABLE 2  
Continued

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-10	-15	-20
EPA Method 418.1 Analyte					
Total Petroleum Hydrocarbons	59	8500	5700	4600	17000

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-10	-15	-20
EPA Method 8015M Analyte					
Paint Thinner & Oil C8 - C30	NT	NT	NT	NT	Fuel Hydrocarbon 9700

ND = NOT DETECTED NT = NOT TESTED NS = NOT SAMPLED

These techniques largely preclude or certainly minimize the likelihood of cross contamination of soil samples between each boring.

### 3.3 Soil Sampling:

All depth-specific, undisturbed soil samples were obtained using a Modified California Sampler. This apparatus is a driven, split-barrel core sampler, which has two thin-walled inner rings or liners to capture the soil sample. The inner rings are brass cylinder type, six (6) inches by one and one-half (1.5) inches in diameter which were prepared on-site.

After the auger was advanced to the target depth, the Modified California Sampler was attached to the end of a five-foot long steel drive-rod. The Modified California Sampler and drive-rod(s) are centered down the hollow-stem flights of augers, and lowered to the bottom (target depth) of the boring. A hydraulic drive-hammer is attached to the end of the drive-rods which drive the Modified California Sampler below and ahead of where the auger stopped. After the sampler had been driven the required distance (12 inches), it was retrieved from the borehole and brought to the surface. The sampler was disconnected from the drive-rods, disassembled, and the rings removed. Both ends of one ring were immediately sealed with aluminum foil and polyethylene caps. The caps and ring were then wrapped with duct tape, labeled, and placed in an ice chest with "blue ice" for shipment to the laboratory. A Chain-Of-Custody record was completed for each sample. The contents of the other ring sample was placed into a plastic bag and used for lithologic examination using the Unified Soil Classification System. Drill cuttings were collected in DOT approved 17-H drums, identified and left on site while awaiting laboratory results to dictate proper disposal by Fleetwood Machine Products, Inc.

Boreholes were backfilled from the base of the boring to within 6 inches of the finished surface elevation with Enviroplug (bentonite). All surfaces were restored with concrete.

These techniques should preclude the possibility of the borehole becoming a conduit for surface contaminants from entering the subsurface.

### 3.4 Task 2 Laboratory Analyses:

On April 16, 1991 the soil samples collected from borings FB-1, FB-2, FB-3, FB-4 and FB-5 were transported to Golden State Analytical Services, Inc., a laboratory approved by the State of California for testing of hazardous chemicals and wastewaters. A Chain-Of-Custody Record (Appendix B) was signed by the responsible person in receipt of the samples. Nineteen (19) depth-specific, undisturbed soil samples were analyzed for organic volatile compounds and total petroleum hydrocarbons using EPA Methods 8240 and 418.1 respectively. In addition, as a result of the high concentrations of petroleum hydrocarbon detected in soil samples FB2-20 and FB3-20, an additional fuel characterization analysis, EPA Method 8015M, was prescribed for these two soil samples. The levels of detection for EPA Method 8240 meet the EPA Practical Quantitation Limits (PQL) for specific compounds described in "Test Methods for Evaluating Solid Waste (SW-846)" , as well as the holding times also described in SW-846.

**TABLE 4**  
Continued

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-8	-15	-20
EPA Method 418.1 Analyte					
Total Petroleum Hydrocarbons	ND	ND	NT	NS	NS

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-8	-15	-20
EPA Method 8015M Analyte					
Paint Thinner & Oil C8 - C30	NT	NT	NT	NT	NT
Paint Thinner C8 - C12	NT	NT	NT	NT	NT

ND = NOT DETECTED NT = NOT TESTED NS = NOT SAMPLED

TABLE 4  
SUMMARY OF ANALYTICAL RESULTS  
BORNG FB-4

All concentrations are in ug/kg (ppb)

Sample Number	-1	-5	-8	-15	-20
EPA Method 8240 Analyte					
Chloromethane	ND	ND	NT	NS	NS
Vinyl Chloride	ND	ND	NT	NS	NS
Bromomethane	ND	ND	NT	NS	NS
Chloroethane	ND	ND	NT	NS	NS
Trichlorofluoromethane	ND	ND	NT	NS	NS
Acetone	ND	ND	NT	NS	NS
1,1-Dichloroethene	ND	ND	NT	NS	NS
Carbon Disulfide	ND	ND	NT	NS	NS
Methalene Chloride	ND	ND	NT	NS	NS
Trans 1,2-Dichloroethene	ND	ND	NT	NS	NS
1,1-Dichloroethane	ND	ND	NT	NS	NS
Vinyl Acetate	ND	ND	NT	NS	NS
2-Butanone (MEK)	ND	ND	NT	NS	NS
Chloroform	ND	ND	NT	NS	NS
1,2-Dichloroethane	ND	ND	NT	NS	NS
1,1,1-Trichloroethane	ND	ND	NT	NS	NS
Benzene	ND	ND	NT	NS	NS
Carbon Tetrachloride	ND	ND	NT	NS	NS
1,2-Dichloropropane	ND	ND	NT	NS	NS
Trichloroethene	ND	ND	NT	NS	NS
Bromodichloromethane	ND	ND	NT	NS	NS
Cis-1,3-Dichloropropene	ND	ND	NT	NS	NS
4-Methyl-2-Pentanone	ND	ND	NT	NS	NS
Trans-1,3-Dichloropropene	ND	ND	NT	NS	NS
1,1,2-Trichloroethane	ND	ND	NT	NS	NS
Toluene	ND	ND	NT	NS	NS
Dibromochloromethane	ND	ND	NT	NS	NS
2-Hexanone	ND	ND	NT	NS	NS
Tetrachloroethene	12	ND	NT	NS	NS
Chlorobenzene	ND	ND	NT	NS	NS
Ethylbenzene	ND	ND	NT	NS	NS
Bromoform	ND	ND	NT	NS	NS
Styrene	ND	ND	NT	NS	NS
Total Xylenes	ND	ND	NT	NS	NS
1,1,2,2-Tetrachloroethane	ND	ND	NT	NS	NS
1,3-Dichlorobenzene	ND	ND	NT	NS	NS
1,4-Dichlorobenzene	ND	ND	NT	NS	NS
1,2-Dichlorobenzene	ND	ND	NT	NS	NS



#### 4.5 Boring FB-5

Table 5 presents a summary of the analytical results from the depth-specific, undisturbed soil sample collected from Boring FB-5. Sample codes FB5-1 (one-foot), represent the depth that the sample was obtained. The analytical test results of the soil sample collected at 1 foot detected the presence of tetrachloroethene at a concentration of 11 ppb. Additionally, analytical test results detected 2500 ppm TPH in FB5-1.

TABLE 5

## SUMMARY OF ANALYTICAL RESULTS

## BORNG FB-5

All concentrations are in ug/kg (ppb)

Sample Number	-1	-5	-10	-15	-20
EPA Method 8240 Analyte					
Chloromethane	ND	NS	NS	NS	NS
Vinyl Chloride	ND	NS	NS	NS	NS
Bromomethane	ND	NS	NS	NS	NS
Chloroethane	ND	NS	NS	NS	NS
Trichlorofluoromethane	ND	NS	NS	NS	NS
Acetone	ND	NS	NS	NS	NS
1,1-Dichloroethene	ND	NS	NS	NS	NS
Carbon Disulfide	ND	NS	NS	NS	NS
Methalene Chloride	ND	NS	NS	NS	NS
Trans 1,2-Dichloroethene	ND	NS	NS	NS	NS
1,1-Dichloroethane	ND	NS	NS	NS	NS
Vinyl Acetate	ND	NS	NS	NS	NS
2-Butanone (MEK)	ND	NS	NS	NS	NS
Chloroform	ND	NS	NS	NS	NS
1,2-Dichloroethane	ND	NS	NS	NS	NS
1,1,1-Trichloroethane	ND	NS	NS	NS	NS
Benzene	ND	NS	NS	NS	NS
Carbon Tetrachloride	ND	NS	NS	NS	NS
1,2-Dichloropropane	ND	NS	NS	NS	NS
Trichloroethene	ND	NS	NS	NS	NS
Bromodichloromethane	ND	NS	NS	NS	NS
Cis-1,3-Dichloropropene	ND	NS	NS	NS	NS
4-Methyl-2-Pentanone	ND	NS	NS	NS	NS
Trans-1,3-Dichloropropene	ND	NS	NS	NS	NS
1,1,2-Trichloroethane	ND	NS	NS	NS	NS
Toluene	ND	NS	NS	NS	NS
Dibromochloromethane	ND	NS	NS	NS	NS
2-Hexanone	ND	NS	NS	NS	NS
Tetrachloroethene	11	NS	NS	NS	NS
Chlorobenzene	ND	NS	NS	NS	NS
Ethylbenzene	ND	NS	NS	NS	NS
Bromoform	ND	NS	NS	NS	NS
Styrene	ND	NS	NS	NS	NS
Total Xylenes	ND	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	ND	NS	NS	NS	NS
1,3-Dichlorobenzene	ND	NS	NS	NS	NS
1,4-Dichlorobenzene	ND	NS	NS	NS	NS
1,2-Dichlorobenzene	ND	NS	NS	NS	NS

TABLE 5  
Continued

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-10	-15	-20
EPA Method 418.1 Analyte					
Total Petroleum Hydrocarbons	2500	NS	NS	NS	NS

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-10	-15	-20
EPA Method 8015M Analyte					
Paint Thinner & Oil C8 - C30	NT	NT	NT	NT	NT
Paint Thinner C8 - C12	NT	NT	NT	NT	NT

ND - NOT DETECTED NT - NOT TESTED NS - NOT SAMPLED

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

The laboratory data provides a qualitative and quantitative assessment of the soil samples collected at Fleetwood Machine Products. The following conclusions and recommendations are based on the laboratory results and the observations made on-site.

### 5.1 Boring FB-1

The laboratory analyses of soil sample FB1-1 collected from Boring FB-1 detected the presence of 1,1,1-trichloroethane, tetrachloroethene and total petroleum Hydrocarbons. Total petroleum hydrocarbons were also detected in soil samples FB1-10 and FB1-20.

Tetrachloroethene and 1,1,1-trichloroethane are both halogenated hydrocarbons used in a variety of products manufactured for industry e.g. degreasers tapping fluids, coolants etc. Petroleum hydrocarbons are even more predominant in industrial products ranging from oils, coolants to cleaners and greases and lubricants.

Boring FB-1 was drilled along the northern property line along the fence in an effort to ascertain if the stains observed in the new and waste oil storage area have impacted the soils of the adjoining property, and to determine the extent of vertical migration. These data suggest that stains observed in the new and waste oil storage area may have resulted from surface spills. The concentration of halogenated hydrocarbons attenuate to non-detection by 5 feet below land surface, which suggest that the observed oil stains have not migrated off site. The concentrations of petroleum hydrocarbons detected at 10 and 20 feet suggest that the source is from another location, probable on-site, but possibly off-site.

### 5.2 Boring FB-2

The laboratory analyses of the soil samples collected from Boring FB-2 detected the presence of halogenated- and petroleum-based hydrocarbons,

acetone and xylene. Due to the interference of fuel hydrocarbons in the laboratory analysis of FB2-20, an additional analysis EPA Method 8015M, was used to determine what was causing the interference. The laboratory analysis indicates that FB2-20 contained 9600 ppm of paint thinner and oil.

Boring FB-2 was drilled adjacent to a semi-buried drum, in an attempt to determine the integrity of the drum. The laboratory results suggest that the drum has leaked. Coupled with lithology beneath the site, the laboratory results suggest that the leaking drum may have also contributed to the deeper soil contamination detected in the areas of Borings FB-1 and FB-3.

### **5.3 Boring FB-3**

The laboratory analyses of the soil samples collected from Boring FB-3 detected the presence of halogenated- and petroleum-based hydrocarbons, acetone and xylene. Due to the interference of fuel hydrocarbons in the laboratory analysis of FB3-20, an additional analysis EPA Method 8015M, was used to determine what was causing the interference. The laboratory analysis indicates that FB3-20 contained 450 ppm of paint thinner.

Boring FB-3 was drilled adjacent to the machine cuttings storage bins, in an attempt to determine the integrity of the concrete containment base beneath the structure. The laboratory results suggest that the concrete base has not fully containing the waste oil from the machine cuttings.

### **5.4 Boring FB-4**

The laboratory analyses of soil sample FB4-1 detected tetrachloroethene at a concentration of 12 ppb. No petroleum hydrocarbons or other aromatic hydrocarbons were detected.

Boring FB-4 was drilled adjacent to a small degreaser that used 1,1,1-trichloroethane, in an attempt to determine the integrity of the degreaser unit and if any spills which may have occurred have impacted the soil beneath it. The laboratory results suggest that the degreaser is not leaking and the soil in the immediate vicinity have not been impacted by the 1,1,1-trichloroethane

solvent. The low concentrations of tetrachloroethene detected in the analytical results of soil sample FB4-1 can most likely be attributed to the machine cuttings storage bins, or remotely, the simi-buried drum.

### **5.5 Boring FB-5**

The laboratory analyses of soil sample FB5-1 detected tetrachloroethene at a concentration of 11 ppb, and total petroleum hydrocarbons at a concentration of 2500 ppm. No other halogenated or aromatic hydrocarbons were detected in the soil sample.

Boring FB-5 was drilled in a depression of the asphalt paving where surface water collects, in an attempt to determine if underlying soils have been impacted by surface contamination. The laboratory results suggest that spills may have occurred in this area or surface waters may have carried hazardous materials to this area; however, due to lack of data, no conclusions can be interpreted from a single soil sample.

Based on the laboratory results from the soil samples collected from Borings FB-1, FB-2, FB-3, FB-4 and FB-5, it is apparent that the machine cutting bins and the simi-buried drum have impacted the subsurface soils beneath the Fleetwood Machine Products site. The vertical extent of contamination cannot be determined based on these shallow borings. In order to determine the vertical extent of contamination, deeper borings will be needed in the areas of the machine cuttings storage area and the simi-buried drum. In addition, a deeper boring is needed in the area of depressed asphalt in order to determine if the deeper soils have been impacted by surface run-off. Additional borings should be drilled further south and east of the machine cutting storage area, in an effort to help determine the lateral extent of contamination.

These data do not conclude that all the contamination detected beneath the Fleetwood Machine Products site are result of it's operations. Neighboring operations to the north have the potential to contaminate the subsurface soils with petroleum hydrocarbons; however, the off-site source(s) or the lateral extent of contamination from the Fleetwood Machine Products site cannot be determined without placing borings off-site.

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Johnson, J. A. and Duke, C. M., 1983; Subsurface Geology of Portions of San Fernando Valley and Los Angeles Basin, in Benfor, Coffman, Bernick and Dees, eds., San Fernando, California. Earthquake of February 9, 1971, U.S. Department of Commerce, Vol. III.

Leaking Underground Fuel Tank Field manual, State of California Leaking Underground Fuel Tank Task Force, April 5, 1989.

USEPA Office of Solid Waste and Emergency Response, HAZARDOUS WASTE LAND TREATMENT, SW-874 (April, 1983) page 273, Table 6.46.

FIGURE (1)



### 4.3 Boring FB-3

Table 3 presents a summary of the analytical results from the depth-specific, undisturbed soil samples collected from Boring FB-3. Sample codes FB3-1 (one-foot), FB3-5 and so on, represent the depth that the samples were obtained. The analytical test results of the soil sample collected at 1, 5, 10, 15 and 20 feet detected the presence of PCE at concentrations ranging from 5.2 ppb to 170 ppb. TCA was detected in the 1 and 5 foot soil samples at concentrations of 89 and 13 ppb respective, but attenuated to below detection levels in the 10, 15 and 20 foot samples. Acetone and total xylene were detected in the 15 and 20 foot soil samples with concentrations of 56 and 60 ppb respectively. TPH was detected in all soil samples collected from Boring FB-3 ranging from 140 ppm to 49000 ppm. Due to the matrix interferences of high petroleum hydrocarbons in the 20 foot sample, EPA Method 8015M was prescribed to characterize the suspected fuel hydrocarbon. EPA Method 8015M detected 450 ppm of paint thinner in soil sample FB3-20.

TABLE 3

## SUMMARY OF ANALYTICAL RESULTS

BORNG FB-3

All concentrations are in ug/kg (ppb)

Sample Number	-1	-5	-10	-15	-20
EPA Method 8240 Analyte					
Chloromethane	ND	ND	ND	ND	<50
Vinyl Chloride	ND	ND	ND	ND	<50
Bromomethane	ND	ND	ND	ND	<50
Chloroethane	ND	ND	ND	ND	<50
Trichlorofluoromethane	ND	ND	ND	ND	<25
Acetone	ND	ND	ND	56	<250
1,1-Dichloroethene	ND	ND	ND	ND	<25
Carbon Disulfide	ND	ND	ND	ND	<25
Methalene Chloride	ND	ND	ND	ND	<25
Trans 1,2-Dichloroethene	ND	ND	ND	ND	<25
1,1-Dichloroethane	ND	ND	ND	ND	<25
Vinyl Acetate	ND	ND	ND	ND	<250
2-Butanone (MEK)	ND	ND	ND	ND	<250
Chloroform	ND	ND	ND	ND	<25
1,2-Dichloroethane	ND	ND	ND	ND	<25
1,1,1-Trichloroethane	89	13	ND	ND	<25
Benzene	ND	ND	ND	ND	<25
Carbon Tetrachloride	ND	ND	ND	ND	<25
1,2-Dichloropropane	ND	ND	ND	ND	<25
Trichloroethene	ND	ND	ND	ND	<25
Bromodichloromethane	ND	ND	ND	ND	<25
Cis-1,3-Dichloropropene	ND	ND	ND	ND	<25
4-Methyl-2-Pentanone	ND	ND	ND	ND	<250
Trans-1,3-Dichloropropene	ND	ND	ND	ND	<25
1,1,2-Trichloroethane	ND	ND	ND	ND	<25
Toluene	ND	ND	ND	ND	<25
Dibromochloromethane	ND	ND	ND	ND	<25
2-Hexanone	ND	ND	ND	ND	<250
Tetrachloroethene	170	41	11	5.2	170
Chlorobenzene	ND	ND	ND	ND	<25
Ethylbenzene	ND	ND	ND	ND	<25
Bromoform	ND	ND	ND	ND	<25
Styrene	ND	ND	ND	ND	<25
Total Xylenes	ND	ND	ND	ND	60
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	<25
1,3-Dichlorobenzene	ND	ND	ND	ND	<25
1,4-Dichlorobenzene	ND	ND	ND	ND	<25
1,2-Dichlorobenzene	ND	ND	ND	ND	<25

**TABLE 3**  
Continued

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-10	-15	-20
EPA Method 418.1 Analyte					
Total Petroleum Hydrocarbons	49000	200	140	280	510

All concentrations are in mg/kg (ppm)

Sample Number	-1	-5	-10	-15	-20
EPA Method 8015M Analyte					Fuel Hydrocarbon
Paint Thinner C8 - C12	NT	NT	NT	NT	450

ND = NOT DETECTED NT = NOT TESTED NS = NOT SAMPLED

#### 4.4 Boring FB-4

Table 4 presents a summary of the analytical results from the depth-specific, undisturbed soil samples collected from Boring FB-4. Sample codes FB4-1 (one-foot) and FB4-5 represent the depth that the samples were obtained. The analytical test results of the soil sample collected at 1 foot, detected the presence of tetrachloroethene at a concentration of 12 ppb, which attenuated to below detection limits by 5 feet. No other compounds were detected in soil sample FB4-1. The analytical test results indicate that none of the listed compounds were detected in soil sample FB4-5



# GOLDEN STATE Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406  
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client: Carberry & Associates  
Project Name: HS & D  
Project#: N/A  
P.O.#: HS & D

Matrix: Soil  
Date Received: 04/16/91  
Date Analyzed: 04/18/91  
GSAS Job#: 6503

## GC/MS Volatile Organics (8240) - continued

ug/Kg (ppb)

Client Sample#:	FB1 - 1	FB1 - 5	FB2 - 1	Reporting
GSAS Sample#:	GS-0491-458	GS-0491-459	GS-0491-463	Limits
2-Hexanone	BRL	BRL	BRL	50
Tetrachloroethene	490	BRL	490	5.0
Chlorobenzene	BRL	BRL	BRL	5.0
Ethylbenzene	BRL	BRL	BRL	5.0
Bromoform	BRL	BRL	BRL	5.0
Styrene	BRL	BRL	BRL	5.0
Total Xylenes	BRL	BRL	BRL	5.0
1,1,2,2,-Tetrachloroethane	BRL	BRL	BRL	5.0
1,3-Dichlorobenzene	BRL	BRL	BRL	5.0
1,4-Dichlorobenzene	BRL	BRL	BRL	5.0
1,2-Dichlorobenzene	BRL	BRL	BRL	5.0

## QA/QC - Surrogate Recoveries %

1,2-Dichloroethane-d4	91	102	101
Toluene-d8	76	116	102
p-Bromofluorobenzene	82	93	89

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

*B. Gene Bennett*



# GOLDEN STATE

## Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406  
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	HS & D	Date Analyzed:	04/25/91
P.O.#:	N/A	GSAS Job#:	6503-A

### GC/MS Volatile Organics (8240)

ug/Kg (ppb)

Client Sample#:	FB1 - 10	FB1 - 15	FB1 - 20	Reporting
GSAS Sample#:	GS-0491-460	GS-0491-461	GS-0491-462	Limits
Chloromethane	BRL	BRL	BRL	10
Vinyl Chloride	BRL	BRL	BRL	10
Bromomethane	BRL	BRL	BRL	10
Chloroethane	BRL	BRL	BRL	10
Trichlorofluoromethane	BRL	BRL	BRL	5.0
Acetone	BRL	BRL	BRL	50
1,1-Dichloroethene	BRL	BRL	BRL	5.0
Carbon Disulfide	BRL	BRL	BRL	5.0
Methylene Chloride	BRL	BRL	BRL	5.0
Trans-1, 2-Dichloroethene	BRL	BRL	BRL	5.0
1,1-Dichloroethane	BRL	BRL	BRL	5.0
Vinyl Acetate	BRL	BRL	BRL	50
2-Butanone	BRL	BRL	BRL	50
Chloroform	BRL	BRL	BRL	5.0
1,2-Dichloroethane	BRL	BRL	BRL	5.0
1,1,1-Trichloroethane	BRL	BRL	BRL	5.0
Benzene	BRL	BRL	BRL	5.0
Carbon Tetrachloride	BRL	BRL	BRL	5.0
1,2-Dichloropropane	BRL	BRL	BRL	5.0
Trichloroethene	BRL	BRL	BRL	5.0
Bromodichloromethane	BRL	BRL	BRL	5.0
Cis-1,3-Dichloropropene	BRL	BRL	BRL	5.0
4-Methyl-2-Pentanone	BRL	BRL	BRL	50
Trans-1,3-Dichloropropene	BRL	BRL	BRL	5.0
1,1,2-Trichloroethane	BRL	BRL	BRL	5.0
Toluene	BRL	BRL	BRL	5.0
Dibromochloromethane	BRL	BRL	BRL	5.0



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Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	HS & D	Date Analyzed:	04/25/91
P.O.#:	N/A	GSAS Job#:	6503-A

## GC/MS Volatile Organics (8240) - continued

ug/Kg (ppb)

Client Sample#:	FB1 - 10	FB1 - 15	FB1 - 20	Reporting
GSAS Sample#:	GS-0491-460	GS-0491-461	GS-0491-462	Limits
2-Hexanone	BRL	BRL	BRL	50
Tetrachloroethene	BRL	BRL	BRL	5.0
Chlorobenzene	BRL	BRL	BRL	5.0
Ethylbenzene	BRL	BRL	BRL	5.0
Bromoform	BRL	BRL	BRL	5.0
Styrene	BRL	BRL	BRL	5.0
Total Xylenes	BRL	BRL	BRL	5.0
1,1,2,2,-Tetrachloroethane	BRL	BRL	BRL	5.0
1,3-Dichlorobenzene	BRL	BRL	BRL	5.0
1,4-Dichlorobenzene	BRL	BRL	BRL	5.0
1,2-Dichlorobenzene	BRL	BRL	BRL	5.0

## QA/QC - Surrogate Recoveries %

1,2-Dichloroethane-d4	72%	71%	74%
Toluene-d8	99%	99%	100%
p-Bromofluorobenzene	87%	89%	85%

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



# GOLDEN STATE Analytical Services, Inc.

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Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	N/A	Date Analyzed:	04/18/91
P.O.#:	HS & D	GSAS Job#:	6503

## GC/MS Volatile Organics (8240)

ug/Kg (ppb)

Client Sample#:	FB2 - 5	FB2 - 10	FB2 - 15	Reporting
GSAS Sample#:	GS-0491-464	GS-0491-465	GS-0491-466	Limits
Chloromethane	BRL	BRL	BRL	10
Vinyl Chloride	BRL	BRL	BRL	10
Bromomethane	BRL	BRL	BRL	10
Chloroethane	BRL	BRL	BRL	10
Trichlorofluoromethane	BRL	BRL	BRL	5.0
Acetone	BRL	BRL	BRL	50
1,1-Dichloroethene	BRL	BRL	BRL	5.0
Carbon Disulfide	BRL	BRL	BRL	5.0
Methylene Chloride	BRL	BRL	BRL	5.0
Trans-1, 2-Dichloroethene	BRL	BRL	BRL	5.0
1,1-Dichloroethane	16	BRL	17	5.0
Vinyl Acetate	BRL	BRL	BRL	50
2-Butanone	BRL	BRL	BRL	50
Chloroform	BRL	BRL	BRL	5.0
1,2-Dichloroethane	BRL	BRL	BRL	5.0
1,1,1-Trichloroethane	120	83	120	5.0
Benzene	BRL	BRL	BRL	5.0
Carbon Tetrachloride	BRL	BRL	BRL	5.0
1,2-Dichloropropane	BRL	BRL	BRL	5.0
Trichloroethene	BRL	BRL	BRL	5.0
Bromodichloromethane	BRL	BRL	BRL	5.0
Cis-1,3-Dichloropropene	BRL	BRL	BRL	5.0
4-Methyl-2-Pentanone	BRL	BRL	BRL	50
Trans-1,3-Dichloropropene	BRL	BRL	BRL	5.0
1,1,2-Trichloroethane	BRL	BRL	BRL	5.0
Toluene	BRL	BRL	BRL	5.0
Dibromochloromethane	BRL	BRL	BRL	5.0





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Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	N/A	Date Analyzed:	04/18/91
P.O.#:	HS & D	GSAS Job#:	6503

## GC/MS Volatile Organics (8240) - continued

ug/Kg (ppb)

Client Sample#:	FB2 - 5	FB2 - 10	FB2 - 15	Reporting
GSAS Sample#:	GS-0491-464	GS-0491-465	GS-0491-466	Limits
2-Hexanone	BRL	BRL	BRL	50
Tetrachloroethene	590	510	730	5.0
Chlorobenzene	BRL	BRL	BRL	5.0
Ethylbenzene	BRL	BRL	BRL	5.0
Bromoform	BRL	BRL	BRL	5.0
Styrene	BRL	BRL	BRL	5.0
Total Xylenes	BRL	BRL	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	BRL	BRL	5.0
1,3-Dichlorobenzene	BRL	BRL	BRL	5.0
1,4-Dichlorobenzene	BRL	BRL	BRL	5.0
1,2-Dichlorobenzene	BRL	BRL	BRL	5.0

## QA/QC - Surrogate Recoveries %

1,2-Dichloroethane-d4	100	104	110
Toluene-d8	95	93	92
p-Bromofluorobenzene	98	98	89

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



# GOLDEN STATE

## Analytical Services, Inc.

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Tel: (818) 376-1122 • Fax: (818) 781-8128

Client: Carberry & Associates  
Project Name: HS & D  
Project#: N/A  
P.O.#: HS & D

Matrix: Soil  
Date Received: 04/16/91  
Date Analyzed: 04/18/91  
GSAS Job#: 6503

### GC/MS Volatile Organics (8240)

ug/Kg (ppb)

Client Sample#:	FB2 - 20 **	FB3 - 1	FB3 - 5	Reporting
GSAS Sample#:	GS-0491-467	GS-0491-468	GS-0491-469	Limits
Chloromethane	< 50	BRL	BRL	10
Vinyl Chloride	< 50	BRL	BRL	10
Bromomethane	< 50	BRL	BRL	10
Chloroethane	< 50	BRL	BRL	10
Trichlorofluoromethane	< 25	BRL	BRL	5.0
Acetone	260	BRL	BRL	50
1,1-Dichloroethene	< 25	BRL	BRL	5.0
Carbon Disulfide	< 25	BRL	BRL	5.0
Methylene Chloride	< 25	BRL	BRL	5.0
Trans-1, 2-Dichloroethene	< 25	BRL	BRL	5.0
1,1-Dichloroethane	65	BRL	BRL	5.0
Vinyl Acetate	< 250	BRL	BRL	50
2-Butanone	< 250	BRL	BRL	50
Chloroform	< 25	BRL	BRL	5.0
1,2-Dichloroethane	< 25	BRL	BRL	5.0
1,1,1-Trichloroethane	230	89	13	5.0
Benzene	< 25	BRL	BRL	5.0
Carbon Tetrachloride	< 25	BRL	BRL	5.0
1,2-Dichloropropane	< 25	BRL	BRL	5.0
Trichloroethene	< 25	BRL	BRL	5.0
Bromodichloromethane	< 25	BRL	BRL	5.0
Cis-1,3-Dichloropropene	< 25	BRL	BRL	5.0
4-Methyl-2-Pentanone	< 250	BRL	BRL	50
Trans-1,3-Dichloropropene	< 25	BRL	BRL	5.0
1,1,2-Trichloroethane	< 25	BRL	BRL	5.0
Toluene	< 25	BRL	BRL	5.0
Dibromochloromethane	< 25	BRL	BRL	5.0



# GOLDEN STATE Analytical Services, Inc.

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Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	N/A	Date Analyzed:	04/18/91
P.O.#:	HS & D	GSAS Job#:	6503

## GC/MS Volatile Organics (8240) - continued

ug/Kg (ppb)

Client Sample#:	FB2 - 20 **	FB3 - 1	FB3 - 5	Reporting Limits
GSAS Sample#:	GS-0491-467	GS-0491-468	GS-0491-469	
2-Hexanone	< 250	BRL	BRL	50
Tetrachloroethene	1500	170	41	5.0
Chlorobenzene	< 25	BRL	BRL	5.0
Ethylbenzene	< 25	BRL	BRL	5.0
Bromoform	< 25	BRL	BRL	5.0
Styrene	< 25	BRL	BRL	5.0
Total Xylenes	49	BRL	BRL	5.0
1,1,2,2,-Tetrachloroethane	< 25	BRL	BRL	5.0
1,3-Dichlorobenzene	< 25	BRL	BRL	5.0
1,4-Dichlorobenzene	< 25	BRL	BRL	5.0
1,2-Dichlorobenzene	< 25	BRL	BRL	5.0

## QA/QC - Surrogate Recoveries %

1,2-Dichloroethane-d4	117	103	115
Toluene-d8	96	91	97
p-Bromofluorobenzene	93	97	85

\*\* Reporting limit has been raised due to matrix (high concentrations of petroleum hydrocarbons) interferences.

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



# GOLDEN STATE

## Analytical Services, Inc.

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Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	N/A	Date Analyzed:	04/18/91
P.O.#:	HS & D	GSAS Job#:	6503

### GC/MS Volatile Organics (8240)

ug/Kg (ppb)

Client Sample#:	FB3 - 10	FB3 - 15	FB3 - 20 **	Reporting
GSAS Sample#:	GS-0491-470	GS-0491-471	GS-0491-472	Limits
Chloromethane	BRL	BRL	< 50	10
Vinyl Chloride	BRL	BRL	< 50	10
Bromomethane	BRL	BRL	< 50	10
Chloroethane	BRL	BRL	< 50	10
Trichlorofluoromethane	BRL	BRL	< 25	5.0
Acetone	BRL	56	< 250	50
1,1-Dichloroethene	BRL	BRL	< 25	5.0
Carbon Disulfide	BRL	BRL	< 25	5.0
Methylene Chloride	BRL	BRL	< 25	5.0
Trans-1, 2-Dichloroethene	BRL	BRL	< 25	5.0
1,1-Dichloroethane	BRL	BRL	< 25	5.0
Vinyl Acetate	BRL	BRL	< 250	50
2-Butanone	BRL	BRL	< 250	50
Chloroform	BRL	BRL	< 25	5.0
1,2-Dichloroethane	BRL	BRL	< 25	5.0
1,1,1-Trichloroethane	BRL	BRL	< 25	5.0
Benzene	BRL	BRL	< 25	5.0
Carbon Tetrachloride	BRL	BRL	< 25	5.0
1,2-Dichloropropane	BRL	BRL	< 25	5.0
Trichloroethene	BRL	BRL	< 25	5.0
Bromodichloromethane	BRL	BRL	< 25	5.0
Cis-1,3-Dichloropropene	BRL	BRL	< 25	5.0
4-Methyl-2-Pentanone	BRL	BRL	< 250	50
Trans-1,3-Dichloropropene	BRL	BRL	< 25	5.0
1,1,2-Trichloroethane	BRL	BRL	< 25	5.0
Toluene	BRL	BRL	< 25	5.0
Dibromochloromethane	BRL	BRL	< 25	5.0



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Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	N/A	Date Analyzed:	04/18/91
P.O.#:	HS & D	GSAS Job#:	6503

## GC/MS Volatile Organics (8240) - continued

ug/Kg (ppb)

Client Sample#:	FB3 - 10	FB3 - 15	FB3 - 20 **	Reporting
GSAS Sample#:	GS-0491-470	GS-0491-471	GS-0491-472	Limits
2-Hexanone	BRL	BRL	< 250	50
Tetrachloroethene	11	5.2	170	5.0
Chlorobenzene	BRL	BRL	< 25	5.0
Ethylbenzene	BRL	BRL	< 25	5.0
Bromoform	BRL	BRL	< 25	5.0
Styrene	BRL	BRL	< 25	5.0
Total Xylenes	BRL	BRL	60	5.0
1,1,2,2,-Tetrachloroethane	BRL	BRL	< 25	5.0
1,3-Dichlorobenzene	BRL	BRL	< 25	5.0
1,4-Dichlorobenzene	BRL	BRL	< 25	5.0
1,2-Dichlorobenzene	BRL	BRL	< 25	5.0

## QA/QC - Surrogate Recoveries %

1,2-Dichloroethane-d4	120	125	121
Toluene-d8	105	91	103
p-Bromofluorobenzene	90	96	117

\*\* Reporting limit has been raised due to matrix (high concentrations of petroleum hydrocarbons) interferences.

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

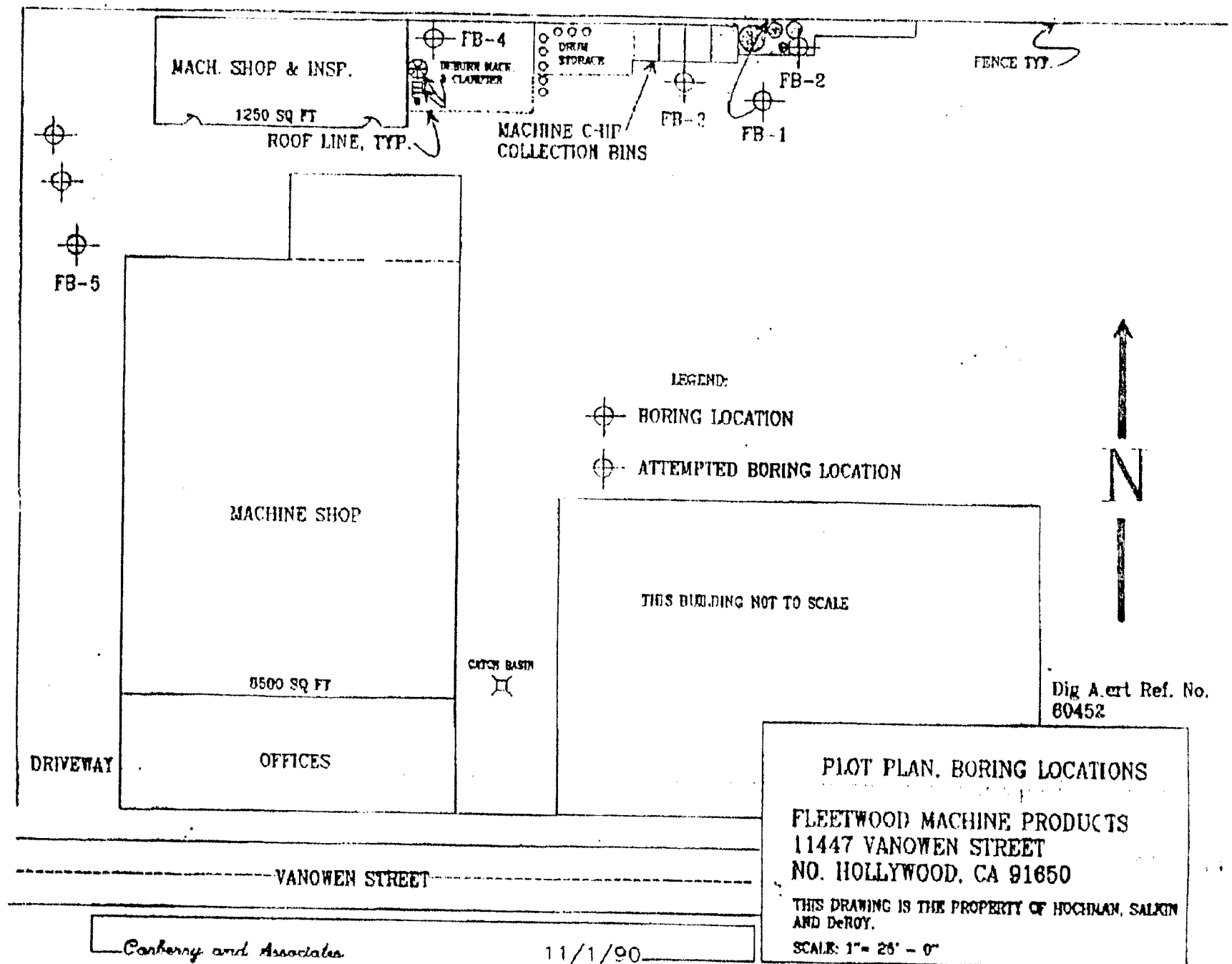


FIGURE (2)

MACHINE CHIP  
COLLECTION



FENCE

BORING FB-1

CL

← 4 ft 2.0 in →

← FB1-1

← FB1-5

20 ft

0.0 in

← FB1-10

12 DEG

← FB1-15

← FB1-20

Dig Alert Ref. No.  
60452

BORING FB-1 ELEVATION

FLEETWOOD MACHINE PRODUCTS  
11447 VANOWEN STREET  
NO. HOLLYWOOD, CA 91650

THIS DRAWING IS THE PROPERTY OF HOCHMAN, SALKIN  
AND DeROY.

SCALE: 1" = 4' - 0"

Carberry and Associates

5/18/91



## APPENDIX (A)

# Single Analysis Worksheet

Client Name: CARBERRY  
 Job Name: 175+ D  
 Analysis: 418.1  
 Matrix: SOIL  
 Reporting Limit: 10 mg/kg

GSAS Job#: 6503-A  
 Client Job#: N/A  
 Date Recd: 4/16/1  
 Date Due: 4/26/1  
 Date Analyzed: 4/19/1

Client SPL#	GSAS SPL#	Sample Weight	Calculations	Final Result
	0491-			
FB1-10	460	14.9g	ABS: 0.200 // $MM \times \frac{25}{14.9} \times \frac{25}{2}$ 2/25	230 mg/kg
FB1-15	461	15.0g	ABS: 0.120	BRL
FA1-20	462	14.9g	ABS: 0.230 3/25	$13 \times \frac{25}{14.9} \times \frac{25}{3}$ 180 mg/kg
461 S1		15.1	ABS: 0.630 .55	$35 \times \frac{25}{15.1} = \frac{58.2}{6.2} = 82\%$
S2		15.0	ABS: 0.620 .54	$34.25 \times \frac{25}{15} = 57$ $\frac{58.57}{57.5} = 2\%$

## QA/QC DATA

Spike Recovery

\_\_\_\_\_ %

Duplicate RPD

\_\_\_\_\_ %

Analyst: \_\_\_\_\_



# GOLDEN STATE Analytical Services, Inc.

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Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associate	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	N/A	Date Analyzed:	04/23/91
P.O.#:	HS & D	GSAS Job#:	6503

## Total Petroleum Hydrocarbons - 418.1

mg/Kg (ppm)

Client Sample#	GSAS Sample#	Amount Detected	Reporting Limits
FB1 - 1	GS-0401-458	6400	10
FB1 - 5	GS-0491-459	BRL	10
FB2 - 1	GS-0491-463	59	10
FB2 - 5	GS-0491-464	8500	10
FB2 - 10	GS-0491-465	5700	10
FB2 - 15	GS-0491-466	4600	10
FB2 - 20	GS-0491-467	17000	10
FB3 - 1	GS-0491-468	49000	10
FB3 - 5	GS-0491-469	200	10
FB3 - 10	GS-0491-470	140	10
FB3 - 15	GS-0491-471	280	10
FB3 - 20	GS-0491-472	510	10
FB4 - 1	GS-0491-473	BRL	10
FB4 - 5	GS-0491-474	BRL	10
FB5 - 1	GS-0491-476	2500	10

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



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Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	N/A	Date Analyzed:	04/18/91
P.O.#:	HS & D	GSAS Job#:	6503

## GC/MS Volatile Organics (8240)

ug/Kg (ppb)

Client Sample#:	FB1 - 1	FB1 - 5	FB2 - 1	Reporting
GSAS Sample#:	GS-0491-458	GS-0491-459	GS-0491-463	Limits
Chloromethane	BRL	BRL	BRL	10
Vinyl Chloride	BRL	BRL	BRL	10
Bromomethane	BRL	BRL	BRL	10
Chloroethane	BRL	BRL	BRL	10
Trichlorofluoromethane	BRL	BRL	BRL	5.0
Acetone	BRL	BRL	BRL	50
1,1-Dichloroethene	BRL	BRL	BRL	5.0
Carbon Disulfide	BRL	BRL	BRL	5.0
Methylene Chloride	BRL	BRL	BRL	5.0
Trans-1, 2-Dichloroethene	BRL	BRL	BRL	5.0
1,1-Dichloroethane	BRL	BRL	12	5.0
Vinyl Acetate	BRL	BRL	BRL	50
2-Butanone	BRL	BRL	BRL	50
Chloroform	BRL	BRL	BRL	5.0
1,2-Dichloroethane	BRL	BRL	BRL	5.0
1,1,1-Trichloroethane	110	BRL	96	5.0
Benzene	BRL	BRL	BRL	5.0
Carbon Tetrachloride	BRL	BRL	BRL	5.0
1,2-Dichloropropane	BRL	BRL	BRL	5.0
Trichloroethene	BRL	BRL	BRL	5.0
Bromodichloromethane	BRL	BRL	BRL	5.0
Cis-1,3-Dichloropropene	BRL	BRL	BRL	5.0
4-Methyl-2-Pentanone	BRL	BRL	BRL	50
Trans-1,3-Dichloropropene	BRL	BRL	BRL	5.0
1,1,2-Trichloroethane	BRL	BRL	BRL	5.0
Toluene	BRL	BRL	BRL	5.0
Dibromochloromethane	BRL	BRL	BRL	5.0



# GOLDEN STATE

## Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406  
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	N/A	Date Analyzed:	04/18/91
P.O.#:	HS & D	GSAS Job#:	6503

### GC/MS Volatile Organics (8240)

ug/Kg (ppb)

Client Sample#:	FB4 - 1	FB4 - 5	FB5 - 1	Reporting
GSAS Sample#:	GS-0491-473	GS-0491-474	GS-0491-476	Limits
Chloromethane	BRL	BRL	BRL	10
Vinyl Chloride	BRL	BRL	BRL	10
Bromomethane	BRL	BRL	BRL	10
Chloroethane	BRL	BRL	BRL	10
Trichlorofluoromethane	BRL	BRL	BRL	5.0
Acetone	BRL	BRL	BRL	50
1,1-Dichloroethene	BRL	BRL	BRL	5.0
Carbon Disulfide	BRL	BRL	BRL	5.0
Methylene Chloride	BRL	BRL	BRL	5.0
Trans-1, 2-Dichloroethene	BRL	BRL	BRL	5.0
1,1-Dichloroethane	BRL	BRL	BRL	5.0
Vinyl Acetate	BRL	BRL	BRL	50
2-Butanone	BRL	BRL	BRL	50
Chloroform	BRL	BRL	BRL	5.0
1,2-Dichloroethane	BRL	BRL	BRL	5.0
1,1,1-Trichloroethane	BRL	BRL	BRL	5.0
Benzene	BRL	BRL	BRL	5.0
Carbon Tetrachloride	BRL	BRL	BRL	5.0
1,2-Dichloropropane	BRL	BRL	BRL	5.0
Trichloroethene	BRL	BRL	BRL	5.0
Bromodichloromethane	BRL	BRL	BRL	5.0
Cis-1,3-Dichloropropene	BRL	BRL	BRL	5.0
4-Methyl-2-Pentanone	BRL	BRL	BRL	50
Trans-1,3-Dichloropropene	BRL	BRL	BRL	5.0
1,1,2-Trichloroethane	BRL	BRL	BRL	5.0
Toluene	BRL	BRL	BRL	5.0
Dibromochloromethane	BRL	BRL	BRL	5.0



# GOLDEN STATE Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406  
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client: Carberry & Associates  
Project Name: HS & D  
Project#: N/A  
P.O.#: HS & D

Matrix: Soil  
Date Received: 04/16/91  
Date Analyzed: 04/18/91  
GSAS Job#: 6503

## GC/MS Volatile Organics (8240) - continued

ug/Kg (ppb)

Client Sample#:	FB4 - 1	FB4 - 5	FB5 - 1	Reporting
GSAS Sample#:	GS-0491-473	GS-0491-474	GS-0491-476	Limits
2-Hexanone	BRL	BRL	BRL	50
Tetrachloroethene	12	BRL	11	5.0
Chlorobenzene	BRL	BRL	BRL	5.0
Ethylbenzene	BRL	BRL	BRL	5.0
Bromoform	BRL	BRL	BRL	5.0
Styrene	BRL	BRL	BRL	5.0
Total Xylenes	BRL	BRL	BRL	5.0
1,1,2,2,-Tetrachloroethane	BRL	BRL	BRL	5.0
1,3-Dichlorobenzene	BRL	BRL	BRL	5.0
1,4-Dichlorobenzene	BRL	BRL	BRL	5.0
1,2-Dichlorobenzene	BRL	BRL	BRL	5.0

## QA/QC - Surrogate Recoveries %

1,2-Dichloroethane-d4	107	114	104
Toluene-d8	104	104	114
p-Bromofluorobenzene	89	90	76

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*

## LOG OF EXPLORATORY BORING

Carberry and Associates

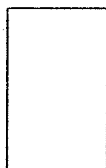
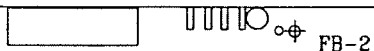
DATE: APRIL 16, 1991

PAGE 1

BORING NO: FB-2

OF 1

## FIELD LOCATION OF BORING



VANOWEN STREET

PROJECT NO: 901011035

CLIENT: HACHMAN, SALKIN &amp; DEROF, Re. FLEETWOOD MACHINE PRODUCTS, INC

LOCATION: 11447 VANOWEN ST., NO. HOLLYWOOD, CA 91605

LOGGED BY: T. CARBERRY

DRILL RIG MODEL NO: SIMCO 2400SK-1

DRILLERS NAME: C. SWENSEN

HOLE DIAMETER: 5.5 INCH.

BOREHOLE DETAILS: 20 FOOT VERTICAL BORING. SAMPLE 1, 5, 10, 15, &amp; 20 FEET. BACKFILL FROM 20' TO 6" WITH ENVIROPLUG. RESTORE SURFACE WITH CONCRETE.

DEPTH (FT.)	GRAPHIC LOC	BLOWS/FT	SAMPLE NO.	SAMPLE TYPE DEPTH	SOIL SYMBOL (USCS)
0					
2			FB2-1	6" RING 1 FOOT	sp
4					
6			FB2-5	6" RING 5 FEET	sp/sw
8					
10			FB2-10	6" RING 10 FEET	sp
12					
14					
16			FB2-15	6" RING 15 FEET	SM
18					
20			FB2-20	6" RING 20 FEET	SW
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					
52					
54					
56					
58					

## SOIL DESCRIPTION

6" ASPHALT

SAND, VERY FINE GRAINED, DARK BROWN, SLIGHTLY MOIST, SLIGHTLY MICACEOUS, SLIGHT ODOR.

SAND, BROWN, MOIST, MODERATE GRADING, SLIGHT ODOR.

SAND, VERY FINE GRAINED, BROWN, SLIGHTLY MOIST, SLIGHTLY MICACEOUS, SLIGHT ODOR.

SILTY SAND, VERY FINE GRAINED, DARK BROWN, SLIGHTLY MOIST TO MOIST, SLIGHT ODOR.

GRAVELLY SAND, FINE TO MEDIUM GRADED, GRAY/MULTI-COLORED, MOIST, STRONG PETROLEUM ODOR.

TOTAL DEPTH = 20 FEET

Elizabeth Ann Resting  
R.G. NO. 4874

## LOG OF EXPLORATORY BORING

Carberry and Associates

DATE:

APRIL 16, 1991

PAGE 1

BORING NO:

FB-3

OF 1

## FIELD LOCATION OF BORING



FB-3



VANOWEN STREET

PROJECT NO:

901011035

CLIENT:

HACHMAN, SALKIN &amp; DEROF. Re. FLEETWOOD MACHINE PRODUCTS, INC

LOCATION:

11447 VANOWEN ST., NO. HOLLYWOOD, CA 91605

LOGGED BY:

T. CARBERRY

DRILL RIG MODEL NO:

SIMCO 2400SK-1

DRILLERS NAME:

C. SWENSEN

HOLE DIAMETER:

5.5 INCH.

BOREHOLE DETAILS:

20 FOOT VERTICAL BORING. SAMPLE 1, 5, 10, 15, &amp; 20 FEET. BACKFILL FROM 20' TO 6" WITH ENVIROPLUG. RESTORE SURFACE WITH CONCRETE.

## SOIL DESCRIPTION

DEPTH (FT.)	GRAPHIC LOG	BLOWS/FT.	SAMPLE NO.	SAMPLE TYPE DEPTH	SOIL SYMBOL (USCS)
0					
2			B3-1	6" RING 1 FOOT	SW
4					
6			B3-5	6" RING 5 FEET	SW
8					
10			B3-10	6" RING 10 FEET	SW
12					
14					
16			B3-15	6" RING 15 FEET	gw
18					
20			B3-20	6" RING 20 FEET	SW
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					
42					
44					
46					
48					
50					
52					
54					
56					
58					

10" CONCRETE

SAND, MEDIUM GRAINED SAND WITH COARSE SAND AND SOME CLAY, BROWN TO DARK BROWN, MOIST, NO ODOR.

GRAVELLY SAND, MEDIUM TO COARSE GRAINED, TAN, MOIST, FEW COARSE GRAVELS, NO ODOR.

SANDY GRAVEL, FINE-GRAINED, TAN, MOIST TO DRY, NO ODOR.

SAND, MEDIUM GRAINED (MINOR SILT AND GRAVEL), GRAY, MOIST TO DRY, STRONG PETROLEUM-LIKE ODOR.

TOTAL DEPTH = 20 FEET

*Elizabeth Ann Korman*  
R.G. NO# 4874



## LOG OF EXPLORATORY BORING

Carberry and Associates

DATE:

APRIL 16, 1991

PAGE 1

BORING NO:

FB-4

OF 1

## FIELD LOCATION OF BORING

PROJECT NO:

901011035

CLIENT:

HACHMAN, SALKIN &amp; DEROF. Re. FLEETWOOD MACHINE PRODUCTS, INC

LOCATION:

11447 VANOWEN ST., NO. HOLLYWOOD, CA 91605

LOGGED BY:

T. CARBERRY

DRILL RIG MODEL NO:

AMS HAND AUGER

DRILLERS NAME:

C. SWENSEN

HOLE DIAMETER:

3 INCH.

BOREHOLE DETAILS:

8 FOOT VERTICAL BORING. SAMPLE 1, 5, & 8 FEET.  
BACKFILL FROM 8' TO 6" WITH ENVIROPLUG. RESTORE SURFACE WITH  
CONCRETE.

VANOWEN STREET

DEPTH (FT.)	GRAPHIC LOG	BLOWS/FT	SAMPLE NO.	SAMPLE TYPE DEPTH	SOIL SYMBOL (USCS)	SOIL DESCRIPTION
0						6" CONCRETE
2			FB4-1	6" RING 1 FOOT	sp	SAND, VERY FINE GRAINED (MINOR SILT/CLAY), BROWN, MOIST, NO ODOR.
4						
6			FB4-5	6" RING 5 FEET	sp	SAND, FINE GRAINED (MINOR SILT), MULTI-COLORED, MOIST, NO ODOR.
8			FB4-8	6" RING 8 FEET	SW	SAND, MEDIUM GRAINED (OCCASIONAL COARSE SAND & FINE GRAVEL), MULTI-COLORED, MOIST, NO ODOR.
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						
50						
52						
54						
56						
58						

TOTAL DEPTH = 8 FEET

*Elizabeth Ann Robinson*  
 RG NO #4874

## LOG OF EXPLORATORY BORING

Carberry and Associates

DATE:

APRIL 16, 1991

PAGE 1

BORING NO:

FB-5

OF 1

## FIELD LOCATION OF BORING

PROJECT NO:

901011035

CLIENT:

HACHMAN, SALKIN &amp; DEROF. Re. FLEETWOOD MACHINE PRODUCTS, INC

LOCATION:

11447 VANOWEN ST., NO. HOLLYWOOD, CA 91605

LOGGED BY:

T. CARBERRY

DRILL RIG MODEL NO:

SIMCO 2400SK-1

DRILLERS NAME:

C. SWENSEN

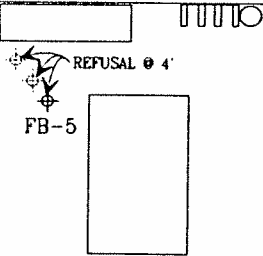
HOLE DIAMETER:

5.5 INCH.

BOREHOLE DETAILS:

4 FOOT VERTICAL BORING. SAMPLE @ 1 FOOT.

BACKFILL FROM 4' TO 6" WITH ENVIROPLUG. RESTORE SURFACE WITH CONCRETE.



VANOWEN STREET

## SOIL DESCRIPTION

6" ASPHALT

SAND, MEDIUM TO FINE GRAINED, BROWN, SLIGHTLY MOIST, SLIGHTLY MICACEOUS, NO ODOR.

SAND, MEDIUM GRAIN WITH SILT/CLAY/FINE GRAVEL, DARK BROWN, MOIST, NO ODOR.

TOTAL DEPTH = 4 FEET

THIRD ATTEMPT TO COMPLETE BORING. REFUSAL @ 4 FEET ON ALL THREE BORINGS DUE TO LARGE COBBLES.

Elizabeth Ann Loomis  
R.G. NO #4874

## LOG OF EXPLORATORY BORING

Carberry and Associates

DATE: APRIL 16, 1991

PAGE 1

BORING NO: FB-1

OF 1

## FIELD LOCATION OF BORING

PROJECT NO: 901011035

CLIENT: HACHMAN, SALKIN &amp; DEROF. Re. FLEETWOOD MACHINE PRODUCTS, INC

LOCATION: 11447 VANOWEN ST., NO. HOLLYWOOD, CA 91605

LOGGED BY: T. CARBERRY

DRILL RIG MODEL NO: SIMCO 2400SK-1

DRILLERS NAME: C. SWENSEN

HOLE DIAMETER: 5.5 INCH.

BOREHOLE DETAILS: 20 FOOT, 12 DEGREE SLANT BORING. SAMPLE 1, 5, 10, 15, &amp; 20 FEET. BACKFILL FROM 20' TO 6" WITH ENVIROPLUG. RESTORE SURFACE WITH CONCRETE.

VANOWEN STREET

DEPTH (FT.)	GRAPHIC LOG	BLOWS/FT	SAMPLE NO.	SAMPLE TYPE DEPTH	SOIL SYMBOL (USCS)	SOIL DESCRIPTION
0						6" ASPHALT
2			FB1-1	6" RING 1 FOOT	sm	SILTY SAND FINE GRAINED, LIGHT BROWN, FINE GRAVELS MODERATE GRADING SLIGHTLY MICACEOUS MOIST, SLIGHT ODOR.
4						
6			FB1-5	6" RING 5 FEET	sp	SAND, GRAY TO TAN, MOIST, POORLY GRADED, FEW FINE GRAVELS, SLIGHTLY MICACEOUS, NO ODOR.
8						
10			FB1-10	6" RING 10 FEET	SW	GRAVELLY SAND, GRAY, MEDIUM GRAINED SLIGHTLY MICACEOUS, MOIST, NO ODOR.
12						
14						
16			FB1-15	6" RING 15 FEET	SW	GRAVELLY SAND, GRAY, MEDIUM GRAINED SLIGHTLY MICACEOUS, MOIST, NO ODOR.
18						
20			FB1-20	6" RING 20 FEET	sp	SANDS, TAN TO LIGHT BROWN, MEDIUM GRAINED, DRY, FEW FINES, NO ODOR.
22						TOTAL DEPTH = 20 FEET
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						
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58						

Elizabeth Ann Kossin  
 RG NO # 4874

## APPENDIX (B)



# GOLDEN STATE

## Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406

Tel: (818) 376-1122 • Fax: (818) 781-8128

Client: Carberry & Associates  
Project Name: HS & D  
Project#: HS & D  
P.O.#: N/A

Matrix: Soil  
Date Received: 04/16/91  
Date Analyzed: 04/25/91  
GSAS Job#: 6503-A

### GC/MS Volatile Organics (8240)

ug/Kg (ppb)

Client Sample#:	FB1 - 10	FB1 - 15	FB1 - 20	Reporting
GSAS Sample#:	GS-0491-460	GS-0491-461	GS-0491-462	Limits
Chloromethane	BRL	BRL	BRL	10
Vinyl Chloride	BRL	BRL	BRL	10
Bromomethane	BRL	BRL	BRL	10
Chloroethane	BRL	BRL	BRL	10
Trichlorofluoromethane	BRL	BRL	BRL	5.0
Acetone	BRL	BRL	BRL	50
1,1-Dichloroethene	BRL	BRL	BRL	5.0
Carbon Disulfide	BRL	BRL	BRL	5.0
Methylene Chloride	BRL	BRL	BRL	5.0
Trans-1, 2-Dichloroethene	BRL	BRL	BRL	5.0
1,1-Dichloroethane	BRL	BRL	BRL	5.0
Vinyl Acetate	BRL	BRL	BRL	50
2-Butanone	BRL	BRL	BRL	50
Chloroform	BRL	BRL	BRL	5.0
1,2-Dichloroethane	BRL	BRL	BRL	5.0
1,1,1-Trichloroethane	BRL	BRL	BRL	5.0
Benzene	BRL	BRL	BRL	5.0
Carbon Tetrachloride	BRL	BRL	BRL	5.0
1,2-Dichloropropane	BRL	BRL	BRL	5.0
Trichloroethene	BRL	BRL	BRL	5.0
Bromodichloromethane	BRL	BRL	BRL	5.0
Cis-1,3-Dichloropropene	BRL	BRL	BRL	5.0
4-Methyl-2-Pentanone	BRL	BRL	BRL	50
Trans-1,3-Dichloropropene	BRL	BRL	BRL	5.0
1,1,2-Trichloroethane	BRL	BRL	BRL	5.0
Toluene	BRL	BRL	BRL	5.0
Dibromochloromethane	BRL	BRL	BRL	5.0

**GOLDEN STATE  
ANALYTICAL SERVICES, INC.**

15735-1 Strathern St.  
Van Nuys, CA 91406  
(818) 376-1122 • FAX (818) 781-8128

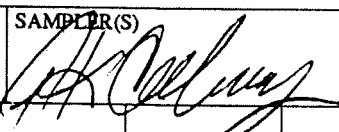
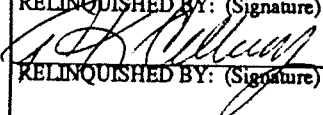
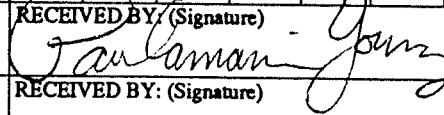
**Chain of Custody Record  
Analytical Services Request**

CLIENT NAME <b>CARBERRY &amp; ASSOCIATE</b>		ADDRESS/PHONE/FAX (805) 251-1801/FAX (805) 252-4096		ANALYSES REQUESTED								GSAS JOB # <b>6503</b>			
PROJECT NAME/LOCATION <b>HS&amp;D</b>				CLIENT PROJECT NO.				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EPA METHOD 8240</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">418.1 MODIFIED FOR SOIL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SAMPLE FROM CENTER OF RING</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SW 846, PQL'S</div> </div>							
PROJECT MANAGER <b>TERRY CARBERRY</b>		SAMPLER(S) <i>[Signature]</i>		P.O. NO. <b>HS&amp;D</b>											
SAMPLE IDENTIFICATION NO.	DATE	TIME	LAB SAMPLE NO.	SAMPLE MATRIX											
FB1-1	4-16-91		0491-458	SOIL	X	X	X	X				5DAYS			
FB1-5	✓		459	SOIL	X	X	X	X				5 DAYS			
FB1-10	✓		460	SOIL									*HOLD		
FB1-15	✓		461	SOIL									*HOLD		
FB1-20	✓		462	SOIL									*HOLD		
FB2-1	4-16-91		463	SOIL	X	X	X	X				5 DAYS			
FB2-5	✓		464	SOIL	X	X	X	X				5 DAYS			
FB2-10	✓		465	SOIL	X	X	X	X					*HOLD client called in request 4/17 5:10 PM		
FB2-15	✓		466	SOIL	X	X	X	X					*HOLD		
FB2-20	✓		467	SOIL	X	X	X	X					*HOLD		
RELINQUISHED BY: (Signature) <i>[Signature]</i>		DATE 4-16-91		TIME 2:18 PM		RECEIVED BY: (Signature) <i>[Signature]</i>		DATE 4/16		TIME 2:19					
RELINQUISHED BY: (Signature)		DATE		TIME		RECEIVED BY: (Signature)		DATE		TIME					
RELINQUISHED BY: (Signature)		DATE		TIME		RECEIVED BY: (Signature)		DATE		TIME					
SEND INVOICE TO:						<p align="center">*CALL FOR INSTRUCTIONS</p> <p>WHITE COPY: Accompanies Samples</p> <p>YELLOW COPY: Sampler</p>									

**GOLDEN STATE  
ANALYTICAL SERVICES, INC.**

15735-1 Strathern St.  
Van Nuys, CA 91406  
(818) 376-1122 • FAX (818) 781-8128

**Chain of Custody Record  
Analytical Services Request**

CLIENT NAME CARBERRY & ASSOCIATES		ADDRESS/PHONE/FAX (805) 251-1801/FAX (805) 252-4096		ANALYSES REQUESTED								GSAS JOB # 6503			
PROJECT NAME/LOCATION HS&D				CLIENT PROJECT NO.				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EPA METHOD 8240</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">418.1 MODIFIED FOR SOIL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SAMPLE FROM CENTER OF RING</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SM 846, PQL'S</div> </div>							
PROJECT MANAGER TERRY CARBERRY		SAMPLER(S) 		P.O. NO. HS&D											
SAMPLE IDENTIFICATION NO.	DATE	TIME	LAB SAMPLE NO.	SAMPLE MATRIX									REQUESTED TURNAROUND TIME	REMARKS	
FB3-1	4-16-91		0491-468	SOIL	X	X	X	X					5 DAYS		
FB3-5	✓		469	SOIL	X	X	X	X					5 DAYS		
FB3-10	✓		470	SOIL	X	X	X	X							
FB3-15	✓		471	SOIL	X	X	X	X						*HOLD client called	
FB3-20	✓		472	SOIL	X	X	X	X						*HOLD in request 4/17/91	
														*HOLD	
FB4-1	4/16/91		473	SOIL	X	X	X	X					5 DAYS		
FB4-5	4/16/91		474	SOIL	X	X	X	X					5 DAYS		
FB4-108	4/16/91		475	SOIL										*HOLD	
RELINQUISHED BY: (Signature) 				DATE 4-16-91	TIME 2:18 pm	RECEIVED BY: (Signature) 				DATE 4/16/91	TIME 1:19				
RELINQUISHED BY: (Signature)				DATE	TIME	RECEIVED BY: (Signature)				DATE	TIME				
RELINQUISHED BY: (Signature)				DATE	TIME	RECEIVED BY: (Signature)				DATE	TIME				
SEND INVOICE TO:					<p style="text-align: right;">* CALL FOR INSTRUCTIONS</p> <p>WHITE COPY: Accompanies Samples</p> <p>YELLOW COPY: Sampler</p>										

**GOLDEN STATE  
ANALYTICAL SERVICES, INC.**

15735-1 Strathern St.  
Van Nuys, CA 91406  
(818) 376-1122 • FAX (818) 781-8128

**Chain of Custody Record  
Analytical Services Request**

CLIENT NAME <b>CARBERRY + ASSOCIATES</b>		ADDRESS/PHONE/FAX			ANALYSES REQUESTED								GSAS JOB # <b>6503-A</b>		
PROJECT NAME/LOCATION <b>H5 + D</b>				CLIENT PROJECT NO.				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8015 FC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">418.1</div> </div>							
PROJECT MANAGER <b>TERRY CARBERRY</b>		SAMPLER(S)		P.O. NO. <b>H5 + D</b>											
SAMPLE IDENTIFICATION NO.	DATE	TIME	LAB SAMPLE NO.	SAMPLE MATRIX	REQUESTED TURNAROUND TIME										
FB2 - 20	4-16-91		0491-467	5052	X									SAMPLES REC'D	
FB3 - 20	↓		472	↓	X									4-16-91. REQUEST	
FB1 - 10	4-16-91		460			X	X							FOR ADDITIONAL	
FB1 - 15	↓		461			X	X							TESTING PHONED	
FB1 - 20	↓		462	↓		X	X							IN 4-24-91 PER	
														TERRY CARBERRY	
														(Signature)	
RELINQUISHED BY: (Signature)			DATE	TIME	RECEIVED BY: (Signature)			<div style="border: 1px solid black; border-radius: 50%; width: 50px; height: 50px; display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">H5</div> </div>			DATE	TIME			
RELINQUISHED BY: (Signature)			DATE	TIME	RECEIVED BY: (Signature)						DATE	TIME			
RELINQUISHED BY: (Signature)			DATE	TIME	RECEIVED BY: (Signature)						DATE	TIME			
SEND INVOICE TO:					WHITE COPY: Accompanies Samples YELLOW COPY: Sampler										



## APPENDIX (C)



# GOLDEN STATE Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406  
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	HS & D	Date Analyzed:	04/24/91
P.O.#:	N/A	GSAS Job#:	6503-A

## Total Petroleum Hydrocarbons - Fuel Characterization

8015m

Client Sample#	GSAS Sample#	Fuel Hydrocarbons mg/Kg (ppm)	Fuel Characterization	Hydrocarbon Range
FB2 - 20	GS-0491-467	9700	Paint Thinner & OIL	C8 - > C30
FB3 - 20	GS-0491-472	450	Paint Thinner	C8 - C12

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*



# GOLDEN STATE Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406  
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:	Carberry & Associates	Matrix:	Soil
Project Name:	HS & D	Date Received:	04/16/91
Project#:	HS & D	Date Analyzed:	04/24/91
P.O.#:	N/A	GSAS Job#:	6503-A

## Total Petroleum Hydrocarbons - 418.1

mg/Kg (ppm)

Client Sample#	GSAS Sample#	Amount Detected	Reporting Limits
FB1 - 10	GS-0491-460	230	10
FB1 - 15	GS-0491-461	BRL	10
FB1 - 20	GS-0491-462	180	10

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

*Dr. B. Gene Bennett*

# ENVIRONMENTAL DISCLOSURE REPORT

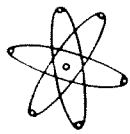


BARBERY AND ASSOCIATES

ENVIRONMENTAL PROGRAMS

CANYON COUNTRY, CA

(615) 251-8011



*Carberry And Associates*

18333 WEST DOLAN WAY, SUITE 209  
Canyon Country  
California 91351

November 19, 1990

Hochman, Salkin and DeRoy  
9100 Wilshire Blvd  
Seventh Floor-West Tower  
Beverly Hills, CA 91202

Attention: Mr. Avram Salkin

Subject: Phase I Environmental Site Assessment, Fleetwood  
Machine Products, Inc. Located at 11447 Vanowen  
Street, North Hollywood, CA.

Carberry and Associates is pleased to submit this preliminary environmental assessment of the Subject property. This evaluation was performed pursuant your signed authorization dated September 27, 1990.

The following summarizes our initial findings, provides recommendations regarding the need for future investigative activities and discusses study limitations.

#### Site Location and Description

The Subject site encompasses approximately 0.393 acres of improved land, situated northeast of the intersection of Farmdale Avenue and Vanowen Street, in the city of North Hollywood, CA. Three structures occupy the rectangle-shaped property, one of which is offices and a machine facility, the second is a small machine shop with a covered shelter housing a small degreaser and drum storage. A steel structure is located close to the northeast corner of the property which is used for collecting machine cuttings. A

concrete semi-bermed area is located immediately east of the steel structure in which bulk-oil and -waste machine cutting oils are stored. Machining and waste-generating activities take place on the subject property.

### Summary of Findings

The details of the scope of the investigation, including major findings, are provided in Exhibit A. Also included in Exhibit A, is an aerial photograph of the site taken January 1, 1970.

Based on the historical record research, review of governmental waste incident data bases, files, interviews with selected individuals and an on-site reconnaissance of the property, direct evidence was observed indicating that there is and/or has been some contamination affecting the subject site and possibly the adjoining property immediately to the north.

Specifically, the hazardous waste storage area located by the northeast corner of the property has discolored asphaltic paving. The soil on the adjoining property directly north of the storage area is discolored, indicating that some contamination may have migrated off-site, due to the lack of a continuous berm surrounding the storage area. Additionally, the integrity of the semi-berm wall has been damaged, making a serious potential for waste oil to escape and infiltrate the stormdrain catch basin located in the path of surface runoff. Minor discoloration of asphaltic paving was observed beneath and down gradient of the trash receptacle located at the west boundary of the property. In addition, stains were observed surrounding a solvent parts washer inside the main machine shop, indicating that spill or leaks have occurred. Uncertainties exist with respect to the integrity of the drum semi-buried below grade in the hazardous material/waste storage area and the area beneath

the chip collection bins because visual inspection is not possible.

### **Conclusions**

In view of the above considerations, it is our opinion that the subject site does present a risk in terms of the potential presences of subsurface soil contamination. In addition there is also a potential for hazardous waste to be discharged into receptors (stormdrain) which threaten state waterways, all as a result of poor housekeeping with respect to the storage and handling of hazardous materials/waste.

### **Recommendations**

The findings described above cannot be verified without undertaking an analytical testing program with regard to the areas of uncertainties. Additional work activities should include implementation of an analytical testing program of the subsurface soil conditions with respect to the quantitative and qualitative soil chemistry. Specifically, as a result of the observed stains and poor hazardous material/waste management, subsurface soil samples should be obtained and EPA approved analyses should be performed to determine the vertical extent of subsurface soil contamination, if it exists.

### **Study Limitations**

This report, including the exhibits, figures and appendices attached thereto, describes the results of Carberry and Associates initial Phase I environmental site assessment to identify the potential presences of significant contamination problems involving or affecting the subject property. The conclusions and recommendations stated herein represent the application of a variety of engineering and technical disciplines to material facts and conditions associated with the subject property. Many of these facts

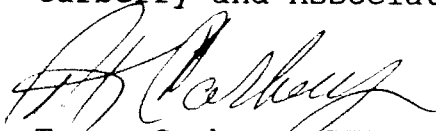
and conditions are subject to change over time; accordingly, the conclusions and recommendations must be viewed within the context of this report. We note that on-site reconnaissance took place on October 15, 1990 and November 1, 1990.

Carberry and Associates has performed this preliminary Phase I environmental site assessment in a professional manner, using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consulting firms. Carberry and Associates shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld or not fully disclosed at the time the evaluation was performed.

Finally, we note that this preliminary Phase I environmental assessment was prepared for the exclusive benefit of Hochman, Salkin and DeRoy for their client. The information contained in these analyses, including exhibits, figures and appendices attached thereto, may not be used by any other party without the express written consent of Carberry and Associates.

If you have any questions regarding this report or the findings discussed in the attached exhibit, please do not hesitate to call the undersigned at (805) 251-1801

Very truly yours  
Carberry and Associates



Terry Carberry REA  
President

Attachments: Exhibit A





PRELIMINARY PHASE I ENVIRONMENTAL SITE ASSESSMENT

SUBMITTED TO:

HOCHMAN, SALKIN AND DEROY  
9100 WILHSIRE BLVD, 7TH FLOOR WEST  
BEVERLY HILLS, CA 91202

FOR THE PROPERTY LOCATED AT:

11447 VANOWEN STREET  
NORTH HOLLYWOOD, CA

CONDUCTED BY:

CARBERRY AND ASSOCIATES  
CANYON COUNTRY CA

NOVEMBER 16, 1990

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## EXHIBIT A

### PRELIMINARY PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR THE PROPERTY LOCATED AT 11447 VANOWEN STREET, NORTH HOLLYWOOD, CA

oo0oo

#### PART I: SITE OWNERSHIP AND LOCATION

##### 1.0 Site Owner:

(a) Name: Milwood W. Cooke and Mildred A. Cooke, husband and wife  
as co-trustees of the Cooke Family Trust.

(b) Address: 634 N. Reese Place, Burbank, CA 91506

##### 2.0 Site Name and Location Reference:

(a) Name: Fleetwood Machine Products, Inc.

(b) Address: 11447 Vanowen Street, No. Hollywood, CA 91605

(c) County: Los Angeles, CA (see Figure 1, Site location map, ref. USGS  
Section, Van Nuys, CA, quadrangle 7.5 minute series)

##### 3.0 Site Acreage:

0.393 acres



#### **4.0 Estimated Percent of Site Covered by Buildings and Pavement:**

100 %

#### **5.0 Summary Description of Current Site Usage:**

The site is currently used for machining operations, engineering functions and office space. In addition, Fleetwood Machine Products Inc. also occupies the building located to the east of the subject parcel, not included in this assessment.

The machining operations involve the cutting and grinding of various types of raw stock, including: beryllium/copper, aluminum, steel, etc.

## **Part II: SITE DESCRIPTION AND ENVIRONMENTAL CHARACTERIZATION**

### **1.0 Description of Site: (See Figure 2, Site Plans)**

#### **(a) Building/Site Layout:**

Three structures are located on-site, one 8,250 square foot building which is used for machining operations and office space, the other two structures, 2,000 square feet and 1,200 square feet are used for machine shop, chemical processing of machined parts and a steel structure which is used for collection of machine cuttings. Associated with the steel structure is a semi-bermed area constructed of cinder block walls with an asphaltic base used for storage of new and waste oil.

The machine shop/office building is fronted by Vanowen Street while the machine shop/chemical processing area is located along the northern boundary of the property. The steel structure and semi-bermed area is located by the northeast corner of the facility.

#### **(b) Utilities:**

Electrical utilities are supplied overhead by the City, while water, sewer and storm water are underground.

#### **(c) Electrical Transformers/Capacitors:**

No PCB containing electrical transformers or capacitors were reported or observed at the facility.

**(d) Easements:**

There is a utility right-of-way easements associated with the subject property. Specifically, an underground telephone easement granted to Pacific Telephone and Telegraph Company, described as the southerly 18 feet of the easterly 159.72 feet of the westerly 279.72 feet (as measured to the centerline of Farmdale Avenue 60 feet wide) of the westerly one-half of the easterly one-half of Lot 74 of the Lankershim Ranch Land and Water Company's subdivision of the Ex-Mission de San Fernando, in the City of Los Angeles, as per map recorded in Book 31 at pages 39 to 44 inclusive of Miscellaneous Records in the Office of the County Recorder of said County, EXCEPTING THEREFROM any portion lying within Vanowen Street as it now exists.

**(e) Fencing:**

The subject site is secured on the south by the building fronted by Vanowen Street and is fenced on the west and the north property lines.

*cont* The ~~west~~ property line is not fenced however, due to the fact that the subject company occupies the adjacent property not included in this assessment.

**(f) Topography and Sloping:**

The subject property is at an approximate elevation of 708 feet above mean sea level, with a gentle surface gradient to the southeast.

**(g) Regional Hydrology: <sup>1</sup>**

The subject site lies within the San Fernando Valley ground-water basin. The basin is bounded on the north and northwest by the Santa Susana Mountains, on the northeast by the San Gabriel Mountains, on the east by the Verdugo Mountains, the southeast by the San Rafael Hills, on the west by the Simi Hills, and on the south by the Santa Monica Mountains. The depth to ground-water in the vicinity (LADWP well #3810 <sup>14</sup>) of the subject site is 467.7 feet above mean sea level (LADWP October 4, 1990). Using these data, ground water is

estimated to be 240.3 feet beneath the subject site. The general regional hydraulic gradient favors ground water flow in a southeasterly direction towards the Los Angeles County Flood Control District, at the Los Angeles River Narrows. (L.A. DWP, Operable Unit Feasibility Study for the North Hollywood Well Field Area of the North Hollywood-Burbank NPL Site, San Fernando Valley Groundwater Basin, November 1986.)

**(h) Regional Geology:**

The subject site is located in the eastern San Fernando Valley, a recent alluvial basin which contains sediments of poorly sorted, unconsolidated, coalescing alluvial fan deposits of sand, gravel and clay. Generally undissected and undeformed. (State of California, water rights board, San Fernando Valley Reference, 1960.)

**(i) Wetlands:**

No wetlands were observed on-site.

**(j) Surface Water: (including streams, rivers ponds, etc.):**

No surface water was observed on-site.

---

<sup>1</sup> Unless otherwise noted, the ground water flow direction has been inferred from a review of regional topographic data. Site specific conditions may vary due to a variety of factors, including geologic anomalies, utilities, nearby pumping wells and other developments.

## **2.0 Site-Specific Waste/Wastewater Information**

### **(a) Catch Basins:**

One catch basin was observed on-site, located between the building fronted by Vanowen Street and the adjoining building to the east of the study area.

### **(b) Septic Tanks/Leaching fields:**

None were observed or reported on-site.

### **(c) Sanitary Sewers:**

Sewage service is provided by City of Los Angeles Sanitation District. No industrial waste discharge permit is on file with the city.

### **(d) Process Wastewater, Sewers:**

Industrial wastewater is generated by: (1) Ultra Matic vibra-burr operation, which uses a detergent (Tripleo, water soluble solvent) during the de-burring process and tap water for rinsing, and (2) once-through cooling water from a vapor-degreaser. Wastewater generated by these operations gravity-flows through a three stage metal, above-ground clarifier. Wastewater from the clarifier gravity flows to a floor sink which discharges to the city sewer system .

### **(e) Underground Tanks:**

No underground tanks were reported as being on-site and no evidence of underground tanks were observed.

### **(f) Above Ground Tanks:**

There are three above-ground tanks located on the property; one 500 gallon storage tank of new oil and two waste oil storage tanks. Both waste oil storage tanks have a capacity of 250 gallons respectively. All

storage tanks are located in a semi-bermed area that is attached to a steel structure designed to collect machine cuttings. A semi-buried 55 gallon drum also located in the semi-bermed area, collects waste oil that drips from the machine cuttings.

Numerous drums of new chemicals, mostly oil and some solvent, are kept in the chemical process area located beneath a roof spanning the north machine shop and the aforementioned steel structure .

**(g) Lagoons, Pits, Other Disposal Areas:**

No pits, ponds or lagoons were observed or reported as being on the property. No waste disposal areas were observed on the property.

**(h) Subsurface Drainage Piping:**

There is only one subsurface stormdrain located on-site. Surface drainage from one-half of the yard area is graded towards a single catch basin located close to the east property line. There is evidence that indicates standing water by the west boundary of the property. Shop personnel verified that after a rainstorm or wash-down, water collects in this area and is left to evaporate.

**(i) Sumps:**

There were no sumps observed or reported as being on the property.

**(j) Ditches:**

There were no ditches observed or reported as being on the property.

### **3.0 Evidence Regarding the Potential Presence of Asbestos Containing Building Materials, Including Readily Observable Physical Conditions:<sup>2</sup>**

#### **(a) Friable Asbestos:**

No potentially friable asbestos was observed.

#### **(b) Non-Friable Asbestos:**

Remnants of floor tiles located on a portion of the main machine shop floor have a potential of containing non-friable asbestos; however, under existing conditions, these floor tiles have a potential of becoming friable.

---

<sup>2</sup> Unless otherwise specified, a complete and through asbestos survey of the subject facility was not undertaken; additionally, no laboratory analysis of potential asbestos containing building material was conducted.

#### **4.0 Description of Operations, Current Use of Raw Materials, Chemical Processes and Hazardous Waste Generated.**

##### **(a) Machine Shop:**

Fleetwood Machine Products, Inc. subcontracts to prime government contractors. It offers precision machine products, precision production grinding and complete assemblies. These operations consist of machining aluminum, brass, beryllium/ copper and machining and grinding steel and specialized steel. Petroleum based oil is used in screw manufacturing machines, and water-soluble oil is used in CNC machines.

##### **(b) Chemical Processing:**

After machining operations are complete, grease and oil are removed from machined parts by a vapor-degreasing operation, using 1,1,1-trichloroethane. Parts are then placed in a vibratory de-burr machine with low concentrations of a mild detergent and water, which de-burrs rough edges from the machined parts.

##### **(c) Waste Generation:**

Hazardous waste is generated as a result of machining and degreasing operations. Petroleum-based cutting oil and water-soluble coolant is discarded when fine particles build up and lubricity is reduced to the point that they are no longer effective. The spent oil and coolant are collected in holding tanks while awaiting proper disposal by Fleetwood Machine Products Inc. Waste oil/coolant is removed from machine cuttings by way of a small centrifuge, prior to placing cuttings into their respective holding bins. Sludge or heavy oil with waste 1, 1, 1-trichloroethane is removed from the vapor degreaser on a scheduled basis, depending on the use of the equipment, and placed in drums while awaiting proper disposal by Fleetwood Machine Products Inc.



**(d) Hazardous Waste Disposal:**

Hazardous waste collected in holding tanks and drums is transported and disposed of, or recycled within a period of 90 days from the time of collection.

TABLE 1

Inventory of Principal Chemicals On-Site

<u>Manufacturer</u>	<u>Material</u>
Tripleo	Water Soluble Safety Solvent
Texico	Rando Oil HD 32
J.E. DeWitt	Combo Base, 1090 H
Regal Oil	R & D 220
Sunnen	MB 30-55 Honing oil
The Cutter	Soluble Base Cutting & Grinding Fluid
J.E. DeWitt	Recycled 1,1,1-Trichloroethane

TABLE 2

**Principal Hazardous Waste Generated**

<b><u>Material</u></b>	<b><u>Recycle, Treatment, Disposal Facility</u></b>
Waste Machine Cutting Oil	DeMenno/Kerdoon Systech
Waste 1,1,1-trichloroethane	Oil and Solvent Process Company

## **5.0 Observations Concerning Waste Management Practices During On-Site Reconnaissance**

### **(a) Date of Site Reconnaissance:**

October 15, 1990 and November 1, 1990.

### **(b) Interior Facility Housekeeping:**

Minor amounts of cutting oil mixed with absorbent material was observed surrounding some machinery. Management personnel indicate that the absorbent material is cleaned-up on a scheduled basis.

A parts cleaning basin (Safety Kleen) was observed with stains on the floor surrounding the base of reservoir.

Cutting oil was observed on windowpanes, walls and windowsills in an area of the main machine shop/office building, where operations create fine mists of oil.

### **(c) Exterior Facility Housekeeping:**

Deformed drums of new oil and waste oil were observed in the processing area with bungs and lids removed. Product was observed on top of some drums and running down the side of other drums. The concrete floor of the drum storage area was stained, indicating that spills often occur. Open, unlabeled pails of oil were standing by the centrifuge. Stains on the asphalt beneath the pails indicate that spills often occur in this area.

Oil stains were observed on the outside bottom portion of trash receptacle and the asphalt pavement beneath and down gradient of the receptacle.

**(d) Hazardous Waste Storage Area:**

As previously discussed, hazardous waste is stored in a semi-bermed area that is constructed of cinder block walls with an asphalt base. The asphalt base of the storage area is severely stained and degraded to the point of very little cohesion. The cinder block wall is porous, stained and severely damaged in numerous areas. The berm is not continuous around the area allowing surface spills and releases of hazardous waste to migrate to the adjoining property to the north. A full drain is incorporated in the berm wall which allows rainwater and hazardous waste to escape and flow to a stormdrain catch basin, located down gradient of the area.

**(e) Tank Fill and Dispensing:**

Residual waste oil which drips from stored machine cuttings is caught by built-in pans placed beneath the cuttings. Waste oil flows through piping to a semi-buried 55 gallon drum. The drum is pumped into one of the 250 gallon waste oil storage tanks. Waste oil drained from production machinery and waste oil extracted by the centrifuge operation is poured into one of the 250 gallon waste oil storage tanks. New machine oil is dispensed from the 500 gallon storage tank by way of a drain valve located at the bottom of the tank. A lock is provided for this valve; however, it did not appear that this lock was being utilized at the time of the inspections.

**(f) Catch Basins:**

Light colored stains were observed around the outside rim of the catch basin.

## **PART III: SITE HISTORY AND DESCRIPTION OF SURROUNDING LAND USES**

### **1.0 Brief Description of Former Uses of Site:**

#### **(a) Title Custody Report**

From information provided by facility management, the subject property was residential prior to 1952, and has been used as light manufacturing since. From Title Custody records (Appendix (A)), from 1960 to the present the property has been used as manufacturing.

#### **(b) Historical Aerial Photographs:**

The following historical air photographs were reviewed at Continental Aerial Photo, Inc., located in Los Alamitos, California, using a Topcon mirror stereoscope, Model 3, with a 1.8 x built-in magnifier and 3 x and 6 x binoculars. During the review, the photographs were specifically examined for evidence of hazardous materials and on- and off-site features, which might have affected the environmental quality of the property. These features include sumps, pits, pounds, lagoons, above-ground tanks, landfills, outside storage of hazardous materials and general land use.

##### Photograph # 60-3-69 & 70, Dated 1/30/70

The property is located on the north side of Vanowen Street, east of Farmdale Street, on Parcel #15. The Parcel contains one large, square shaped building. All adjacent parcels have been developed as well. All of the buildings appear to be a mix of commercial, office or apartment buildings. Their use cannot be determined in these photographs.

Photograph #FCLA 3-233 & 3-234, Dated 5/12/79

No changes have occurred.

Photograph #F432 & F433, Dated 1/28/87

The property looks the same.

Photograph #C81-7-38 & 7-39, Dated 5/25/90

No additional details of this property can be determined in this photograph. The same building has remained on this lot since 1970, no earlier photographs were available.

From the above aerial photograph review, no sumps, pits, pounds, lagoons, above-ground tanks, landfills, outside storage of hazardous materials were noted to be on the subject property. One photograph taken 1/30/70, was purchased and is included in Appendix (B) of this Exhibit.

**(c) Summary Of Permits Issued to the Subject Facility:**

Appendix (C) lists building permits issued to the subject facility from March 21, 1955, through the present. After reviewing these permits, it does not appear that any demolition has taken place over the years which might indicate potential environmental concerns.

**(d) Current Uses of Property Within 100 Feet of the Subject Site:**

Currently the property south of the subject facility is residential. The property north of the subject facility is an auto salvage operation. West of the subject facility is a heat treating facility. East of the subject facility is a machine shop, operated by Fleetwood Machine Products, Inc. No signs of hazardous liquid infiltration appeared to flow onto the subject property during the time of the inspection.

**(e) List of Potentially Significant Land Uses Currently Located Within One Mile of the Subject Facility:**

The Burbank, Glendale, Pasadena Airport is located within one mile northeast of the subject facility.

Heavy industrial areas are located to the north, east and west of the subject facility.



## **PART IV: INVENTORY OF SENSITIVE RECEPTORS IN SITE VICINITY**

### **1.0 Wells/Potable Drinking Water Supplies Within 1,000 Feet Of The Site:**

According to a 1986 survey conducted by L.A. DWP, there are two DWP potable water wells within 1000 feet of the subject site contaminated with tetrachloroethylene and/or trichloroethylene. Specifically, North Hollywood wells #17, #18 and #27. Wells #17, and #27 are located approximately 250 and 900 feet respectively, southwest of the subject site, while well #18 is located approximately 300 feet southeast of the subject site. The survey also shows one DWP potable water well within 1000 feet of the subject site that is not contaminated with volatile organic compounds. Specifically, North Hollywood wells #16, located approximately 500 feet southwest of the subject site. ( Los Angeles Department of Water and Power, Operable Unit Feasibility Study For The North Hollywood Well Field Area Of The North Hollywood-Burbank NPL Site, San Fernando Valley Groundwater Basin, Dated November 1986. )

### **2.0 Residences Within 1,000 Feet Of The Site:**

There are several single-family residences located south and southwest of the subject site.

### **3.0 Major Wetlands/Surface Water Bodies Within 1,000 Feet Of The Site:**

None were observed, discovered or reported.

### **4.0 Other Sensitive, Off-Site Receptors Within 1,000 Feet Of The Site:**

None were observed, discovered or reported.

## **PART V: SELECTED REGULATORY ISSUES**

### **1.0 Information Regarding The Facility As It Pertains To Regulatory Issues:**

#### **(a) Type of RCRA Facility:**

Generator

#### **(b) U.S. EPA Identification Number:**

CAL000222929

#### **(c) Current Treatment, Storage and Disposal Sites Used:**

DeMenno/Kerdoon, Compton CA;  
Systech, Lebec, CA and  
Oil & Solvent Process Co., Azusa, CA.

#### **(d) Current Hazardous Waste Transporters Used:**

Rozuk Oil & Vac, Inc.  
Asbury Oil Co.  
Van Waters & Rogers

### **2.0 Other Environmental Permits or Registrations Held By the Subject Facility Relative to the Generation, Storage, Treatment and/or Disposal of Hazardous Waste:**

None were reported or discovered.

### **3.0 Regulatory Involvement With Respect to Past or Present On-Site Releases of Hazardous Waste:**

None were reported or discovered.

#### **4.0 Regulatory Involvement With Respect to RCRA-Related and Other Off-Site Disposal Sites Used By The Subject Facility:**

Management personnel informed us that that they were unaware of any negative regulatory involvement regarding disposal sites used by Fleetwood Machine Products, Inc.

## **PART VI: REFERENCES**

### **1.0 Persons Performing the Site Investigation:**

Mr. Terry Carberry, Program Manager, Site Investigator.

### **2.0 Persons Responsible for Report Preparation:**

Mr. Terry Carberry, Program Manager

### **3.0 Persons Interviewed:**

Mr. William Cooke, President

Mr. Ralph Felex, General Manager

Mr. Curt Stewart, Shop Superintendent

#### 4.0 Reports and Documents Reviewed:<sup>3</sup>

Appendix (D) lists the results of the following Governmental agencies current database:

##### RECORDS SEARCHED

##### SOURCE LISTS

CERCLA:	EPA-Superfund Sites
NPL:	EPA-National Priority List
LIENS:	Federal Superfund Liens
SWIS:	California Solid Waste Information System List
SWAT:	California Solid Waste Assessment Test Program
RCRA:	EPA-Hazardous Waste Generators
LUST:	California Leaking Underground Storage Tanks
CORTESE:	California Hazardous Waste Substance Sites
TANNER:	California Hazardous Waste Generator & Disposal Data
BEP:	California Bond Expenditure Plan
ASPIS:	California Abandoned Site Program Information System

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<sup>3</sup> We have examined and relied upon the reports and documents listed above which are based on the professional expertise or knowledge of the authors thereof. We have not conducted an independent examination of the facts contained in these referenced materials and have assumed that the information set forth is true and accurate.

## PART VII: SUMMARY OF INITIAL FINDINGS, RECOMMENDATIONS AND CONCLUSIONS<sup>4</sup>

### 1.0 Summary of Major Findings:

- (a) Based on research of company files, interviews with selected individuals and an on-site reconnaissance of the property, direct evidence was observed indicating that there is and/or has been some contamination affecting the subject site and possibly the adjoining property immediately to the north of the site.
- (b) The hazardous waste storage area located by the northeast corner of the property has discolored asphaltic paving. A small portion of the connecting soil on the adjoining property directly north of the oil storage area is discolored, indicating that some contamination has migrated off-site, probably due to the lack of a continuous berm surrounding the storage area.
- (c) The integrity of the semi-berm wall has been damaged making a serious potential for waste oil to escape and infiltrate the stormdrain catch basin, located in the path of surface runoff. Minor discoloration of asphaltic paving was observed beneath and down gradient of the trash receptacle, located at the west boundary of the property. Uncertainties exist with respect to the integrity of the drum semi-buried below grade in the hazardous waste storage area. In addition, the area beneath the chip collection bins is suspect because it can not be visually inspected for leaks.
- (d) The floor beneath the Safety Kleen parts cleaning basin, inside the main machine shop is stained, indicating that spills or leaks have occurred. No secondary containment is provided which creates a potential for the solvent to migrate through the concrete floor into the subsurface soil.

- (e) No industrial waste discharge permit was reported or identified during the record search for the once-through cooling water for the vapor-degreaser and the vibratory de-burring machine which discharges detergent and wastewater to the sanitary sewer.
- (f) Based on a review of the Uniform Hazardous Waste Manifest for 1990, it appears that 1,1,1-trichloroethane is mixed with the waste oil. Based on a review of Material Safety Data Sheets (MSDS) for past chemical used at Fleetwood Machine Products, Inc., it appears that a mixture of methylene chloride and 1,1,1-trichloroethane was used in the vapor-degreaser at one time.
- (g) Based on observations of specific conditions in main machine shop, a potential exists for friable asbestos to enter the shop area from degraded remnants floor tiles.

## 2.0 Conclusions:

In view of the above considerations, it is our opinion that the subject site does present a risk in terms of the potential presences of subsurface soil contamination. In addition there is also a potential for hazardous waste to be discharged into receptors (stormdrain) affecting state waterways, both as a result of poor housekeeping, with respect to the storage and handling of hazardous materials/waste. The fact that the waste oil is contaminated with halogenated organic solvent and the evidence indicating that oil has been discharged in the storage area enhances the potential for regulatory involvement, should an investigation be conducted regarding the nearby water wells.

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<sup>4</sup> Unless specified to the contrary, this preliminary evaluation does not include consideration of radon gas. Such material, if present, cannot be identified without the use of special instruments or testing procedures. Additionally, the conclusions and opinions rendered herein are based solely upon the activities described in this Exhibit. Except if otherwise noted, no analytical testing of soils or groundwater was performed as part of this initial site investigation.



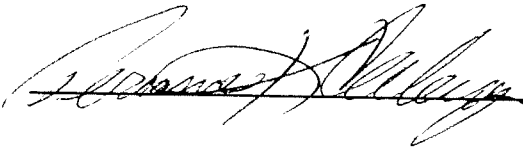
### 3.0 Recommendations

The conclusions described above cannot be verified without undertaking an analytical testing program with regard to the areas identified. Additional work activities should include implementation of an analytical testing program of the subsurface soil conditions, with respect to the quantitative and qualitative soil chemistry. Specifically, as a result of the observed past releases and poor management of hazardous materials, subsurface soil samples should be obtained and EPA-approved analyses should be performed to determine the vertical extent of subsurface soil contamination in the following areas:

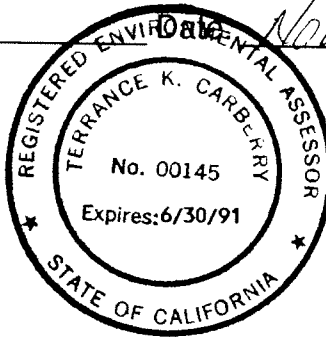
- (1) In the vicinity of the semi-buried drum located in the hazardous material/waste storage area, in order to determine if it has ever leaked;
- (2) In the vicinity of the above-ground oil storage tanks, located in the hazardous material/waste storage area, where the asphalt base is most degraded;
- (3) In the hazardous material/waste storage area, beneath the fence of the adjoining property;
- (4) Beneath the chip collection bins; and
- (5) In the vicinity of the Safety Kleen parts washer.

Finally, Carberry and Associates recommends that a multi-media compliance audit be conducted with regard to operational conditions involving RCRA, SARA Title III Section 313, Clean Air Act, and the Clean Water Act, which presents a more in depth review of the facility's hazardous material/waste management and recording keeping techniques.

This report, including all related activities, was prepared or conducted under the direct supervision of T. K. Carberry REA, president of Carberry and Associates. Our professional services have been performed using that degree of skill and care ordinarily exercised under similar circumstances by other environmental engineering companies practicing in this field. The scope of work and information contained in this report are based on information supplied by company management and other personnel for which this Environmental Assessment has been conducted. No other warranty, expressed or implied, is made as to the professional advice in this report.



Terrance K. Carberry REA  
Project Manager  
(Registration # 00145)



Date Nov 16, 1990

Hochman, Salkin & DeRoy / Fleetwood Machine Products, Inc.

## **APPENDIX (A)**

### **Title Custody Record**

**TITLE CUSTODY REPORT  
FOR  
11447 VANOWEN STREET  
LOS ANGELES, CALIFORNIA  
APN NO. 2320-003-015**

**(1) A GRANT DEED (Recorded 7/27/60 - Instrument #1053)**

Grantor	Francis E. Metcalf, a widow
Grantee	Fleetwood Machine Products, Inc., a California Corporation

**(2) A CORPORATION GRANT DEED (Recorded 8/23/67 - Instrument # 2712)**

Grantor	Fleetwood Machine Products Inc.
Grantee	Wilfred Turcott, a married man

**(3) A BILL OF SALE AND GRANT DEED (Recorded 9/16/68 - Instrument #2342)**

Grantor	Fleetwood Machine Products, Inc. a corporation
Grantee	Wilfred Turcott, a married man

**(4) A GRANT OF EASEMENT (Recorded 8/6/69 - Instrument #3044)**

Grantor	Wilfred Turcott, a married man as his separate property
Grantee	The Pacific Telephone and Telegraph Company, a corporation

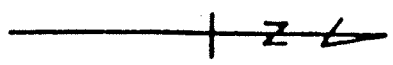
**(5) A GRANT DEED (Recorded 2/8/74 - Instrument #275)**

Grantor	Wilfred Turcott and Judith Turcott, husband and wife
Grantee	Milwood W. Cooke and Mildred A. Cooke, husband and wife as joint tenants

**(6) A COVENANT AND AGREEMENT TO HOLD PROPERTY AS ON PARCEL  
(Recorded 2/18/75 - Instrument #1938)**

**(7) A GRANT DEED (Recorded 1/29/80 - Instrument #104205)**

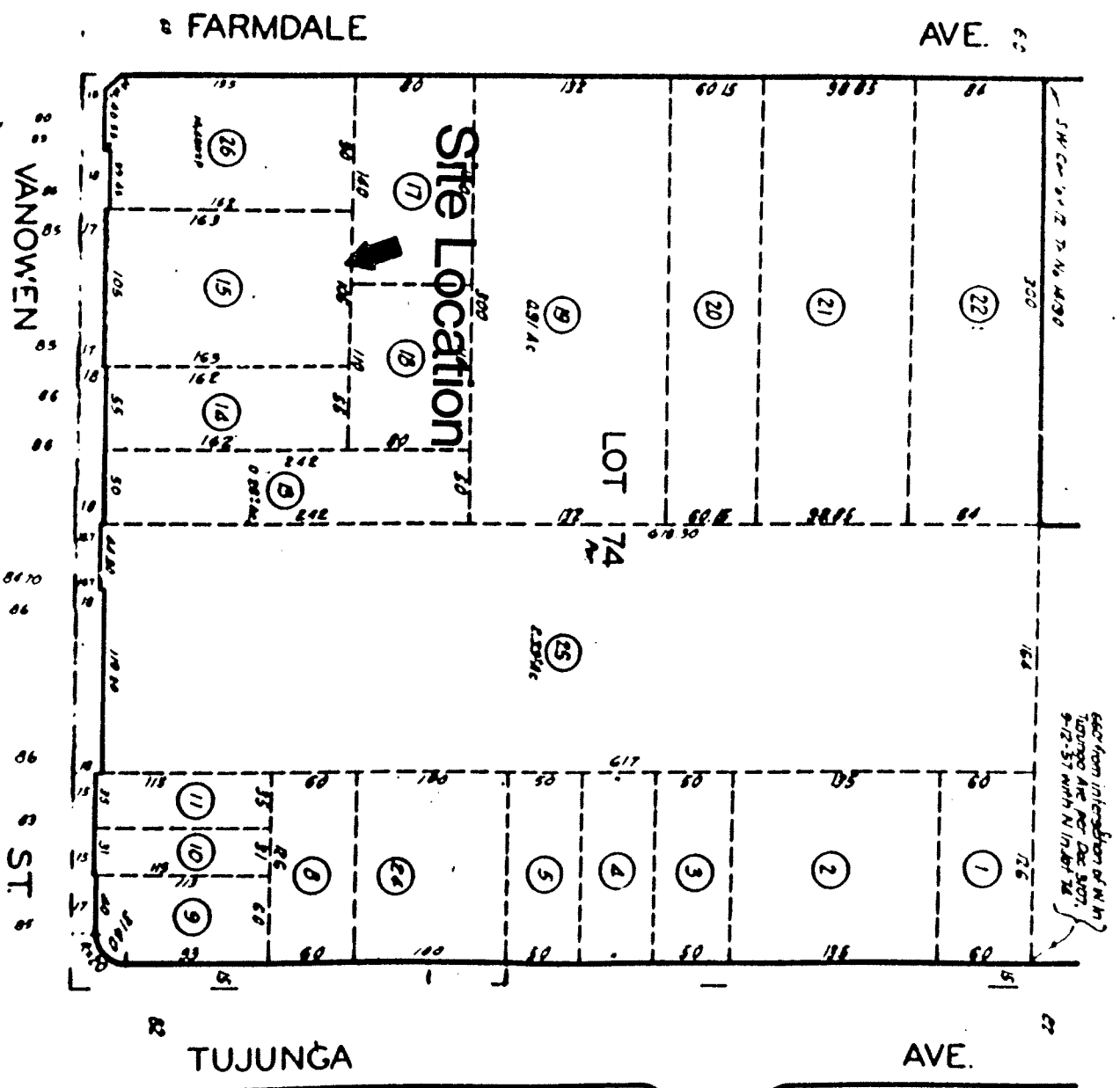
Grantor	Milwood W. Cooke and Mildred A. Cooke, husband and wife
Grantee	Milwood W. Cooke and Mildred A. Cooke, as co-trustees of the Cooke Family Trust, dated June 28, 1973



PROPERTY OF THE  
LANKERSHIM RANCH LAND  
& WATER CO.  
M.R. 31-39-44

COOD  
23

FOR PREV. ASSMT. SEE 916-16



Streets lines per M.R. 31-39-44 are  
considered the lot lines as this tract  
although the distance of same lots  
are measured from the center lines  
of the streets

RECORDING REQUESTED BY

1053

WHEN RECORDED MAIL TO

Fleetwood Machine Products Inc.  
11447 Vanowen  
North Hollywood, California

Agent of Record  
0000001 USE

SPACE ABOVE THIS LINE FOR RECORDER'S USE

DATE FROM

July 19, 1960

herein called Trustee,

TRUSTEE IN TRUST,  
in connection therewith  
County of Los Angeles,

After L.R.N. \$ 30.80 IN THIS SPACE

## Grant Deed

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged.

FRANCES E. METCALF, a widow

hereby GRANT(S) to

FLEETWOOD MACHINE PRODUCTS, INC., a California Corporation

the following described real property in the city of Los Angeles  
county of Los Angeles state of California:

The east 84.72 feet of the west 279.72 feet (said distance measured to the center line of Farndale Avenue, as shown 60 feet wide) of the south 200 feet of the west 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the east half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the south half of the Rancho Ex-Mission de San Fernando, as per map recorded in book 31, page 29, et seq. of Miscellaneous Records, in the office of the county recorder of said county.

EXCEPT the southerly 25 feet thereof included in Vanowen Street.

Dated: June 30, 1960

Frances E. Metcalf  
Frances E. Metcalf

STATE OF CALIFORNIA

COUNTY OF Los Angeles

On June 30, 1960 before me, the undersigned, a Notary Public in and for said County and State, personally appeared FRANCES E. METCALF

known to me to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same as her free and voluntary act.

WITNESS my hand and official seal.

(Notary Public in and for said County and State)

Title Order No. 147

Excess No. 200-1640

If executed by a Corporation the Corporation Form of Acknowledgment must be used.

Sell or  
Execute  
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T.I. REC. JULY 27, 1960

T.I. REC. JULY 27, 1960

1053

2712

Recording requested by:

Marshall L. McDaniel

When recorded, mail to:

Wilfred Turcott  
1906 Maple Street  
Burbank, California  
91505

Mail Tax Statements to:

Wilfred Turcott  
1906 Maple Street  
Burbank, California  
91505

RECORDED IN  
OFFICIAL RECORDS  
LOS ANGELES COUNTY, CALIF.  
KATE E. LEE, RECORDER

AUG 23 12 45 PM 1967

FEE \$3.60 3A

### CORPORATION GRANT DEED

FOR A VALUABLE CONSIDERATION, the receipt and adequacy of which is hereby acknowledged, Fleetwood Machine Products, Inc., a corporation organized under the laws of the State of California, hereby GRANTS to Wilfred Turcott, a married man, that certain real property located in the County of Los Angeles, State of California, more particularly described in Exhibit "A", attached hereto, and by this reference thereto incorporated herein.

EXCEPTING AND RESERVING unto the Grantor those improvements now located upon said property consisting of an industrial facility of approximately 8,250 square feet and two (2) additional structures of approximately 2,000 square feet and 1,200 square feet, now located thereon, with all appurtenances thereon and thereto. Said improvements so excepted and reserved unto the Grantor shall be deemed personalty and the same may be severed and removed from the land upon which they are located by the Grantor subject to any and all other agreements between the Grantor and Grantee.

This conveyance is made subject to:

1. Real property taxes and assessments not delinquent.
2. A Lease of said land between the Grantee as Lessor and the Grantor as Lessee for a term of five (5) years commencing upon the date of recordation of this Grant Deed with a five (5) year renewal option.

AUG 23 1967

2712

Covenants, conditions, restrictions, reservations,  
easements, rights and rights of way of record.

IN WITNESS WHEREOF, said corporation has caused its corporate name and  
seal to be affixed hereto and this instrument to be executed by its

\_\_\_\_ President and \_\_\_\_\_ Secretary thereunto duly authorized.

Dated: July 29 1966.

FLEETWOOD MACHINE PRODUCTS, INC.

By Milwood Cooke President

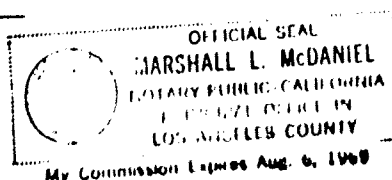
By Jerry L. Conrow Secretary

STATE OF CALIFORNIA }  
COUNTY OF LOS ANGELES } SS.

On JULY 29 1966, before me,  
the undersigned, a Notary Public in and for said  
County and State, personally appeared  
Milwood Cooke, known to me  
to be the \_\_\_\_\_ President, and  
Jerry L. Conrow, known to me to be  
the \_\_\_\_\_ Secretary of Fleetwood Machine  
Products, Inc., the Corporation that executed the  
within Instrument, known to me to be the persons  
who executed the within Instrument on behalf of the  
Corporation therein named, and acknowledged to me that  
such Corporation executed the within Instrument pur-  
suant to its by-laws or a resolution of its board  
of directors.

WITNESS my hand and official seal

Marshall L. McDaniel  
Notary Public, in and for said  
County and State



MAIL TAX STATEMENTS AS DIRECTED ABOVE

AUG 23 1967

2712



LEGAL DESCRIPTION

That certain real property located in the County of Los Angeles, State of California, more particularly described, as follows:

The East 159.72 feet of the West 279.72 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex-Mission de San Fernando, as per map recorded in book 31, page 39, et seq. of Miscellaneous Records, in the office of the county recorder of said county.

EXCEPT the Southerly 25 feet thereof included in Vanowen Street.

AUG 23 '67

2712

EXHIBIT "A"

Recording Requested By:

Marshall L. McDaniel

When recorded, Mail To:

Wilfred Turcott  
1909 Maple Street  
Burbank, California  
91505

Mail Tax Statements To:

Wilfred Turcott  
1909 Maple Street  
Burbank, California  
91505

RECORDED IN OFFICIAL RECORDS  
OF LOS ANGELES COUNTY, CALIF.

30 Min. 12 P.M. SEP 16 1968  
Past

RAY E. LEE, County Recorder

This is a conveyance of real property.  
Property located in North Hollywood, Calif.  
*M. L. McDaniel*

Tax \$64.35

SEE \$3.60 3E

# BILL OF SALE AND GRANT DEED

FOR A VALUABLE CONSIDERATION, the receipt and adequacy of which is hereby acknowledged, FLEETWOOD MACHINE PRODUCTS, INC., a corporation organized under the laws of the State of California, hereby GRANTS bargains, sells, transfers and delivers to WILFRED TURCOTT, a married man, those certain improvements consisting of an industrial facility of approximately 8,250 square feet and two (2) additional structures of approximately 2,000 square feet and 1,200 square feet, now located upon that certain real property, the street address of which is 11447 Vanowen Street, North Hollywood, California 91506, as said real property is more particularly described in Exhibit "A", attached hereto and by this reference thereto incorporated herein.

This Bill of Sale and Deed is subject to:

1. Personal property taxes and real property taxes and assessments not delinquent.
2. A Lease of said land between the Grantee as Lessor and the Grantor as Lessee for a term of five (5) years, with a five (5) year renewal option.
3. Covenants, conditions, restrictions, reservations, easements, rights, and rights of way of record.

IN WITNESS WHEREOF, said corporation has caused its corporate name and

SEP 16 1968

2312

to be affixed hereto and this instrument to be executed by its  
\_\_\_\_ President and \_\_\_\_\_ Secretary thereunto duly authorized.

Dated: July 29, 1966.

FLEETWOOD MACHINE PRODUCTS, INC.

By Milwood Cooke  
President

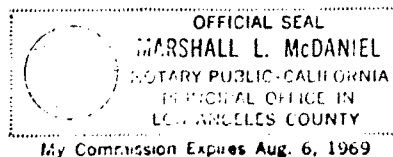
By Jerry L. Conrow  
Secretary

STATE OF CALIFORNIA }  
COUNTY OF LOS ANGELES } SS.

On July 29, 1966, before me, the undersigned, a  
Notary Public in and for said County and State, personally  
appeared Milwood Cooke known to me to be the  
\_\_\_\_ President, and Jerry L. Conrow, known to  
me to be the \_\_\_\_\_ Secretary of Fleetwood Machine  
Products, Inc., the Corporation that executed the within  
Instrument, known to me to be the persons who executed the  
within Instrument on behalf of the Corporation therein  
named, and acknowledged to me that such Corporation exe-  
cuted the within Instrument pursuant to its by-laws or a  
resolution of its board of directors.

WITNESS my hand and official seal.

Marshall L. McDaniel  
Notary Public, in and for said  
County and State



SEP 16 68

2312

LEGAL DESCRIPTION

That certain real property located in the County of Los Angeles, State of California, more particularly described, as follows:

The East 159.72 feet of the West 279.72 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex-Mission de San Fernando, as per map recorded in book 31, page 39, et seq. of Miscellaneous Records, in the office of the county recorder of said county.

EXCEPT the Southerly 25 feet thereof included in Vanowen Street.

SEP 16 68

2342

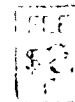
EXHIBIT "A"

WHEN RECORDED RETURN TO

RECORDED IN OFFICIAL RECORDS  
OF LOS ANGELES COUNTY, CALIF.  
FOR TITLE INSURANCE & TRUST CO.

30 Min. 2 P.M. AUG 6 1969

RAY E. LEE, Registrar-Recorder



Name The Pacific Telephone and Telegraph Company  
Street Address Right of Way Department  
Room 304  
City & State 6920 Van Nuys Boulevard  
Van Nuys, California 91405

NO DOCUMENTARY TRANSFER TAX DUE. BY D. W. Schless  
THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY. Agent.

North Hollywood Exchange

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**GRANT OF EASEMENT**

Lankershim Ranch Land & Water Company

WILFRED TURCOTT, a married man as his separate property

does hereby grant to THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY, a corporation, its successors and assigns, an easement to construct, place, operate, inspect, maintain, repair, replace and remove such underground communication structures as Grantee may from time to time require, consisting of cables, conduits, manholes, markers, pedestals and necessary fixtures and appurtenances, in, under, and upon that certain real property in the County of Los Angeles; City of Los Angeles, State of California described as:

The southerly 18 feet of the easterly 159.72 feet of the westerly 279.72 feet (as measured to the centerline of Farndale Avenue 60 feet wide) of the westerly one-half of the easterly one-half of Lot 74 of the Lankershim Ranch Land and Water Company's subdivision of the easterly 12,000 acres of the south half of the Rancho Ex-Mission de San Fernando, in the City of Los Angeles as per map recorded in Book 31 at Pages 39 to 44 inclusive of Miscellaneous Records in the Office of the County Recorder of said County, EXCEPTING THEREFROM any portion lying within Vanowen Street as it now exists.

AUG 6 1969

Grantor also grants to Grantee the right to trim such trees and other foliage and to cut such roots on said property as may be necessary for the protection of said structures, and to enter upon said property at all times for the purpose of exercising the rights hereby granted. Grantee shall be liable to Grantor for any damage which may occur to the above-described property by reason of negligence on the part of Grantee in the exercise of the easements granted.

IN WITNESS WHEREOF this instrument is executed this 22<sup>ND</sup> day of JULY, 1969.

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) ss.

P-26308 (12-68)  
(SUBSCRIBING WITNESS)  
(INDIVIDUAL)

On 22<sup>ND</sup> JULY, 1969, before me, the undersigned, a Notary Public in and for said State, personally appeared D. W. Schless, known to me to be the person whose name is subscribed to the within instrument as a witness, and being by me duly sworn, deposited and said that he resides in Los Angeles County, and that he was present and saw WILFRED TURCOTT

Wilfred Turcott  
WILFRED TURCOTT

personally known to him to be the same person whose name is subscribed to the within instrument, executed and delivered the same, and he is conversant with the contents of the same, and that said affiant

3041

North Hollywood Exchange

GRANT OF EASEMENT

Lankershim Ranch Land and Water Company

WILFRED TURCOTT, a married man as his separate property

does hereby grant to THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY, a corporation, its successors and assigns, an easement to construct, place, operate, inspect, maintain, repair, replace and remove such underground communication structures as Grantee may from time to time require, consisting of cables, conduits, manholes, markers, pedestals and necessary fixtures and appurtenances, in, under, and upon that certain real property in the County of Los Angeles; City of Los Angeles, State of California described as:

The southerly 18 feet of the easterly 159.72 feet of the westerly 279.72 feet (as measured to the centerline of Farmdale Avenue 60 feet wide) of the westerly one-half of the easterly one-half of Lot 74 of the Lankershim Ranch Land and Water Company's subdivision of the easterly 12,000 acres of the south half of the Rancho Ex-Mission de San Fernando, in the City of Los Angeles as per map recorded in Book 31 at Pages 39 to 44 inclusive of Miscellaneous Records in the Office of the County Recorder of said County, EXCEPTING THEREFROM any portion lying within Vanowen Street as it now exists.

AUG 6 1969

Description Correct

Grantor also grants to Grantee the right to trim such trees and other foliage and to cut such roots on said property as may be necessary for the protection of said structures, and to enter upon said property at all times for the purpose of exercising the rights hereby granted. Grantee shall be liable to Grantor for any damage which may occur to the above-described property by reason of negligence on the part of Grantee in the exercise of the easements granted.

IN WITNESS WHEREOF this instrument is executed this 22<sup>ND</sup> day of JULY, 1969.

STATE OF CALIFORNIA )

P-20300 (12-68)  
(SUBSCRIBING WITNESS)  
(INDIVIDUALS)

COUNTY OF LOS ANGELES ) ss.

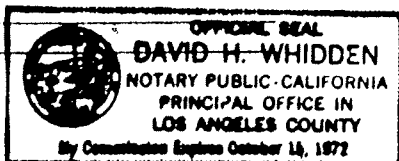
ON 22ND JULY, 1969 before me, the undersigned, a Notary Public in and for said State, personally appeared D. W. SCHLIEF, known to me to be the person whose name is subscribed to the within instrument as a witness thereto, who being by me duly sworn, deposed and said: that he resides in LOS ANGELES County, and that he was present and saw

WILFRED TURCOTT personally known to him to be the same person whose name is subscribed to the within instrument, execute and deliver the same; and he acknowledged to said affiant that he executed the same; and that said affiant subscribed his name as a witness.

WITNESS my hand and official seal  
Signature David H. Whidden

Name typed on printed

My Commission expires



Wilfred Turcott  
Wilfred Turcott

APPROVED AS TO FORM AND  
SUBSCRIPTION July 21, 1969  
LAWLER, PETER & HILL, ATTYS  
BY Philip D. Hill

WITNESS:

D. W. Schlieff  
D. W. Schlieff

3044

FEB 8 1974

RECORDING REQUESTED BY

275

AND WHEN RECORDED MAIL TO

Name  
Street Address  
City & State  
Mr. and Mrs. Milwood W. Cooke  
634 North Reese Place  
Burbank California

MAIL TAX STATEMENTS TO

Name  
Street Address  
City & State  
AS ABOVE SET FORTH

SPACE ABOVE THIS LINE FOR RECORDER'S USE

## Grant Deed

ASSATS POL 111  
TO 415 I CA 18 731

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

The undersigned grantor(s) declare(s):

Documentary transfer tax is \$ 112.75

- (☒) computed on full value of property conveyed, or  
( ) computed on full value less value of liens and encumbrances remaining at time of sale.  
( ) Unincorporated area: (☒) City of Los Angeles, and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,  
WILFRED TURCOTT and JUDITH TURCOTT, husband and wife

hereby GRANT(S) to

MILWOOD W. COOKE and MILDRED A. COOKE, husband and wife as Joint Tenants

the following described real property in the City of Los Angeles  
County of Los Angeles, State of California:

PARCEL 1: The east 55 feet of the West 225 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the east 12,000 acres of the South half of the Rancho Ex Mission de San Fernando, as per map recorded in Book 31, Page 39, Et Seq., of Miscellaneous Records, in the office of the County Recorder of said County, EXCEPT the South 25 feet thereof included in Vanowen Street.

LEAGL DESCRIPTION CONTINUED ON RIDER ATTACHED HERETO AND MADE A PART HEREOF

Dated January 2, 1974

*Wilfred Turcott*  
Wilfred Turcott

STATE OF CALIFORNIA  
COUNTY OF Los Angeles  
On January 7, 1974

before me, the undersigned a Notary Public in and for said State, personally appeared  
Wilfred Turcott  
Judith Turcott

*Judith A Turcott*  
Judith Turcott

T.I. REC FEB 8 74

## Grant Deed

ASSIST. POL. NO.  
10 403 1 CA (5-73)

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

The undersigned grantor(s) declare(s):

Documentary transfer tax is \$ 112.75

(X) computed on full value of property conveyed, or

( ) computed on full value less value of liens and encumbrances remaining at time of sale.

( ) Unincorporated area: (X) City of Los Angeles, and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

WILFRED TURCOTT and JUDITH TURCOTT, husband and wife

hereby GRANT(S) to

MILWOOD W. COOKE and MILDRED A. COOKE, husband and wife as Joint Tenants

the following described real property in the City of Los Angeles  
County of Los Angeles, State of California:

PARCEL 1: The east 55 feet of the West 225 feet (said distance measured to the center line of Farndale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the east 12,000 acres of the South half of the Rancho Ex Mission de San Fernando, as per map recorded in Book 31, Page 39, Et Seq., of Miscellaneous Records, in the office of the County Recorder of said County, EXCEPT the South 25 feet thereof included in Vanowen Street.

LEAGL DESCRIPTION CONTINUED ON RIDER ATTACHED HERETO AND MADE A PART HEREOF

Dated January 2, 1974

*Wilfred Turcott*  
Wilfred Turcott

STATE OF CALIFORNIA

COUNTY OF Los Angeles

} SS.

On January 7, 1974

before me, the undersigned, a Notary Public in and for said State, personally appeared

Wilfred TurcottJudith Turcott

*Judith A Turcott*  
Judith Turcott

known to me  
to be the person whose name subscribed to the within  
instrument and acknowledged that they executed the same.  
WITNESS my hand and official seal.

Signature

*Sydney A. Heins*

Sydney A. Heins

Name (Typed or Printed)



(This area for official notarial seal)

Title Order No. 7269299 Escrow or Loan No. \_\_\_\_\_

MAIL TAX STATEMENTS AS DIRECTED ABOVE

REC FEB 8 74



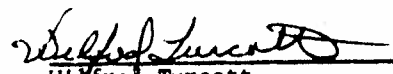
I.I. REC FEB 8 74

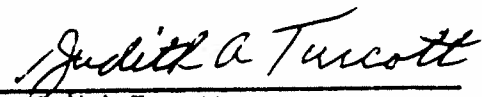
LEGAL DESCRIPTION CONTINUED FOR ATTACHMENT TO THAT CERTAIN GRANT DEED DATED JANUARY 2, 1974 EXECUTED BY WILFRED TURCOTT AND JUDITH TURCOTT IN FAVOR OF MILWOOD W. COOKE AND MILDRED A. COOKE

Street Address  
City & State  
Home  
Street Address  
City & State

PARCEL 2: The East 50 feet of the West 170 feet, (said distance measured from the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distances and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex Mission de San Fernando as per map recorded in Book 31 Page 39 et. seq. of Miscellaneous Records of the office of the County Recorder of said County. EXCEPT the Southern 25 feet thereof included in Vanowen Street.

PARCEL 3: The East 54.72 feet of the West 279.72 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distances and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East one half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South one half of the Rancho Ex Mission de San Fernando, in the City of Los Angeles, in the County of Los Angeles, State of California, as per map recorded in Book 31, Page 39 et seq. of Miscellaneous Records, in the office of the County Recorder of said County. EXCEPT the Southerly 25 feet thereof included in Vanowen Street.

  
Wilfred Turcott

  
Judith A. Turcott

ST  
TX  
Ch  
RG

to the person whose name is known to me  
and acknowledged that they executed the same

OFFICIAL SEAL

wide) of the South 205 feet of the West 10 acres (said distances and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East one half of Lot 74 of the Lankershim Ranch Land and Water Company/s Subdivision of the East 12,000 acres of the South one half of the Rancho Ex Mission de San Fernando, in the City of Los Angeles, in the County of Los Angeles, State of California, as per map recorded in Book 31, Page 39 et seq. of Miscellaneous Records, in the office of the County Recorder of said County. EXCEPT the Southerly 25 feet thereof included in Vanowen Street.

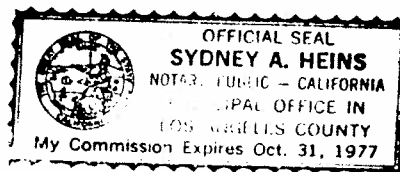
*Wilfred Turcott*  
Wilfred Turcott

*Judith A Turcott*  
Judith Turcott

ST  
CC  
On  
sig

\_\_\_\_\_ known to me  
to be the person S whose name S subscribed to the within  
instrument and acknowledged that they executed the same.  
WITNESS my hand and official seal.

Signature *Sydney A. Heins*  
Sydney A. Heins  
Name (Typed or Printed)



(This area for official notarial seal)

FEB 8 1974  
RECORDED

276

FEB 18 1975

Recorder's Office

Recorded at the request of  
and mail to:

M. W. COOKE  
(Name)

11447 VANOWEN ST.  
(Address)

No. Hollywood, 91605

1938

RECORDED IN OFFICIAL RECORDS  
OF LOS ANGELES COUNTY, CA  
47 MIN. 10 A.M. FEB 18 1975

Recorder's Office

FEE  
\$4  
20

SPACE ABOVE THIS LINE FOR RECORDER'S USE

COVENANT AND AGREEMENT TO HOLD PROPERTY AS ONE PARCEL

The undersigned hereby certify that we are the owners of the hereinafter legally described real property located in the City of Los Angeles, County of Los Angeles, State of California:

See attached for legal description of property  
(legal description)

as recorded in Book 31, page 39/44 Records of Los Angeles County.

And, for the purpose of Driveway Access and Parking  
(state purpose)

JOB ADDRESS: 11447 Vanowen Street, No. Hollywood, Calif. 91605

as regulated by Section 12.03 of the Los Angeles Municipal Code we do hereby covenant and agree with said City that the above legally described land shall be held as one parcel and no portion shall be sold separately.

This covenant and agreement shall run with the land and shall be binding upon ourselves, and future owners, encumbrancers, their successors, heirs, assignees and shall continue in effect until such time that the Los Angeles Municipal Code unconditionally permits the use or purpose herein above referred to or unless otherwise released by authority of the Superintendent of Building of the City of Los Angeles.

Dated this 14th day of February, 1975

Signature of owner Mildred W. Cooke (Sign)

(Two Officer's signatures required for Corporations) Milwood W. Cooke Mildred A. Cooke (Sign)

FOR DEPARTMENT USE ONLY

Branch Office VAN NUYS

District Map 745-4

Sub. Aff. No. \_\_\_\_\_

Approved for recording  
Department of Building and Safety by

W. H. Lee

(INDIVIDUAL)

STATE OF CALIFORNIA } ss.  
COUNTY OF LOS ANGELES }

On February 14, 1975  
before me, the undersigned, a Notary Public in and for said  
County and State, personally appeared  
Milwood W. Cooke and  
Mildred A. Cooke

(CORPORATION)

STATE OF CALIFORNIA } ss.  
COUNTY OF LOS ANGELES }

On \_\_\_\_\_  
before me, the undersigned, a Notary Public in and for said  
County and State, personally appeared  
known to me to be the \_\_\_\_\_  
and \_\_\_\_\_

FEB 18 1975

The undersigned hereby certify that we are the owners of the hereinafter legally described real property located in the City of Los Angeles, County of Los Angeles, State of California:

See attached for legal description of property  
(legal description)

as recorded in Book 31, page 39/44 Records of Los Angeles County.

And, for the purpose of Driveway Access and Parking  
(state purpose)

JOB ADDRESS: 11447 Vanowen Street, No. Hollywood, Calif. 91605

as regulated by Section 12.03 of the Los Angeles Municipal Code we do hereby covenant and agree with said City that the above legally described land shall be held as one parcel and no portion shall be sold separately.

This covenant and agreement shall run with the land and shall be binding upon ourselves, and future owners, encumbrancers, their successors, heirs, assignees and shall continue in effect until such time that the Los Angeles Municipal Code unconditionally permits the use or purpose herein above referred to or unless otherwise released by authority of the Superintendent of Building of the City of Los Angeles.

Dated this 14th day of February, 1975

Signature of owner

(Two Officer's signatures  
required for Corporations)

Milwood W. Cooke (Sign)  
Mildred A. Cooke (Sign)

FOR DEPARTMENT USE ONLY

Branch Office VAN NUYS

District Map 7454

B&S Aff. No. \_\_\_\_\_

Approved for recording  
Department of Building and Safety by

[Signature]

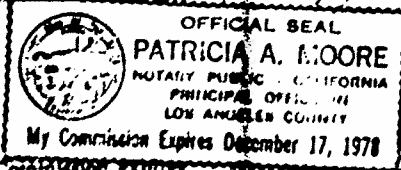
(INDIVIDUAL)

STATE OF CALIFORNIA } SS.  
COUNTY OF LOS ANGELES }

On February 14, 1975  
before me, the undersigned, a Notary Public in and for said  
County and State, personally appeared  
Milwood W. Cooke and  
Mildred A. Cooke

known to me to be the persons whose names are  
subscribed to the within instrument and acknowledged that

they executed the same.  
WITNESS my hand and official seal.



My Commission expires \_\_\_\_\_

(CORPORATION)

STATE OF CALIFORNIA } SS.  
COUNTY OF LOS ANGELES }

On \_\_\_\_\_  
before me, the undersigned, a Notary Public in and for said  
County and State, personally appeared \_\_\_\_\_  
known to me to be the \_\_\_\_\_ President,  
and \_\_\_\_\_

known to me to be \_\_\_\_\_ Secretary of  
the Corporation that executed the within instrument, known  
to me to be the persons who executed the within instrument  
on behalf of the Corporation therein named, and acknowledged  
to me that such Corporation executed the within instrument  
pursuant to its by-laws or a resolution of its board of directors.  
WITNESS my hand and official seal.

My Commission expires \_\_\_\_\_

FEB 18 1975

LEGAL DESCRIPTION FROM GRANT DEED

PARCEL 1: The east 55 feet of the West 225 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the east 12,000 acres of the South half of the Rancho Ex Mission de San Fernando, as per map recorded in Book 31, Page 39, Et Seq., of Miscellaneous Records, in the office of the County Recorder of said County, EXCEPT the South 25 feet thereof included in Vanowen Street.

PARCEL 2: The East 50 feet of the West 170 feet, (said distance measured from the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distances and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex Mission de San Fernando as per map recorded in Book 31, Page 39, et. seq. of Miscellaneous Records of the Office of the County Recorder of said County. EXCEPT the Southerly 25 feet thereof included in Vanowen Street.

PARCEL 3: The East 54.72 feet of the West 279.72 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distances and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East one half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South one half of the Rancho Ex Mission de San Fernando, in the City of Los Angeles, in the County of Los Angeles, State of California, as per map recorded in Book 31, Page 39, et seq. of Miscellaneous Records, in the office of the County Recorder of said County. EXCEPT the Southerly 25 feet thereof included in Vanowen Street.

FEB 18 1975

RECORDING REQUESTED BY  
HOCHMAN, SALVIN and DEROY  
AND WHEN RECORDED MAIL TO  
HOCHMAN, SALVIN and DEROY  
11111 MAIN CORPORATION  
VINO KILGORE BLVD  
10000 WILLOW TOWER  
BEVERLY HILLS, CA 90212

80- 104205

MAIL DEED AND TAX STATEMENTS TO:

MILWOOD W. COOKE and MILDRED A. COOKE,  
Co-Trustees of the COOKE Family Trust  
634 North Reese Place  
Burbank, California

RECORDED IN OFFICIAL RECORDS  
OF LOS ANGELES COUNTY, CALIF.  
1 Min. 11 A.M. JAN 29 1980  
Registrar Recorder

SURVEY MONUMENT FEE \$10. CODE 99

GRANT DEED

FEE  
\$4  
2A

Deed made on January 16, 1980 by MILWOOD W.  
COOKE and MILDRED A. COOKE, husband and wife, of 634 North  
Reese Place, Burbank, California, to MILWOOD W. COOKE and  
MILDRED A. COOKE, as Co-Trustees of the COOKE FAMILY TRUST, dated  
June 28, 1973.

Grantors hereby grant to Grantees as Co-Trustees  
for the members of the Milwood W. Cooke family, the beneficiaries  
under the COOKE FAMILY TRUST, dated June 28, 1973, the following  
described real property in the County of Los Angeles, California:

PARCEL 1: The east 55 feet of the West 225 feet (said  
distance measured to the center line of Farmdale Avenue, as shown  
60 feet wide) of the South 205 feet of the West 10 acres (said  
distance and acreage being measured to the center line of Vanowen  
Street, as shown 50 feet wide) of the East half of Lot 74 of the  
Lankershim Ranch Land and Water Company's Subdivision of the east  
17,000 acres of the South half of the Rancho Ex Mission de San  
Fernando, as per map recorded in Book 31, Page 13, Et Seq., of  
Miscellaneous Records, in the office of the County Recorder of said  
County, EXCEPT the South 25 feet thereof included in Vanowen Street.

LEGAL DESCRIPTION CONTINUED ON RIDER ATTACHED HERETO AND MADE A PART HEREOF.

Dated: January 16, 1980 Milwood W. Cooke  
Milwood W. Cooke

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) ss. Mildred A. Cooke  
Mildred A. Cooke

On January 16, 1980 before me, the  
undersigned, a Notary Public in and for  
said State, personally appeared Milwood W.  
Cooke and Mildred A. Cooke, known to me to  
be the persons whose names are subscribed  
to the within instrument and acknowledged  
that they executed the same.

Signature Helen Sprouls  
Name \_\_\_\_\_




Assessor cannot find Number.


LEGAL DESCRIPTION CONTINUED FOR ATTACHMENT TO THAT CERTAIN  
GRANT DEED DATED \_\_\_\_\_, EXECUTED BY MILWOOD W. COOKE  
AND MILDRED A. COOKE IN FAVOR OF THE MEMBERS OF THE MILWOOD W. COOKE  
FAMILY

80- 104205

PARCEL 2: The East 50 feet of the West 170 feet (said distance measured from the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distances and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex Mission de San Fernando as per map recorded in Book 31 Page 39 et. seq. of Miscellaneous Records of the office of the County Recorder of said County. EXCEPT the southerly 25 feet thereof included in Vanowen Street.

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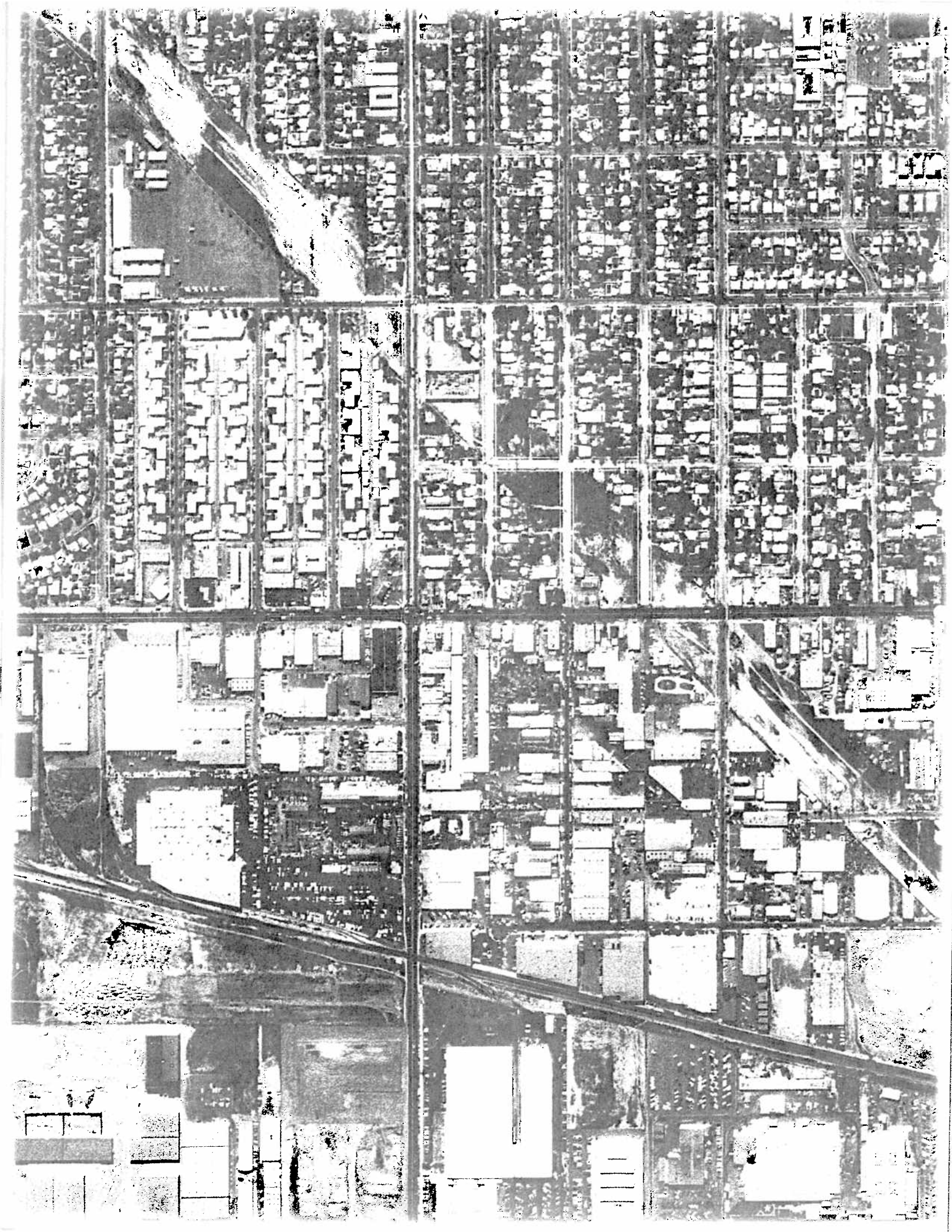
  
Milwood W. Cooke

  
Mildred A. Cooke

## **APPENDIX (B)**

### **Historical Aerial Photograph**





## **APPENDIX (C)**

### **Lists of Building Permits**

[illegible][illegible]

## **APPENDIX (D)**

### **Governmental Agency Database Review**

SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

---

### CERCLIS

The information contained in this report is the current database provided by the E.P.A. list as of June 1989.

The U.S. Environmental Protection Agency (E.P.A.) has compiled this list of contaminated properties for designation under the Federal Superfund Program pursuant to the *Comprehensive Environmental Response Conservation and Liability Act (CERCLA)*. These sites represent environmental concern for the discharge of hazardous materials by hazardous waste generators, treatment and storage facilities, and hazardous waste disposal sites.

---

### FACILITY DATA

*Distance : 0.4 Miles North West*  
*Facility ID: CAD980636278*  
*Facility Name: PACIFIC AIRMOTIVE*  
*Facility St. 6853 LANKERSHIM BLVD*  
*City and Zip: HOLLYWOOD 90068*

*Distance : 0.4 Miles North West*  
*Facility ID: CAD980636260*  
*Facility Name: PACIFIC AIRMOTIVE*  
*Facility St. 6909 LANKERSHIM BLVD*  
*City and Zip: HOLLYWOOD 90068*

*Distance : 0.9 Miles North West*  
*Facility ID: CAD980883706*  
*Facility Name: NICKEL SOLUTION RECYCLING INC*  
*Facility St. 11940 SHERMAN RD*  
*City and Zip: HOLLYWOOD 91605*

---

SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

---

**NPL**

**NATIONAL PRIORITY LIST**

The information contained in this report is the current database provided by the E.P.A. list as of June 1989.

The Environmental Protection Agency has compiled this list from the designated CERCLIS list. The NPL sites are prioritized to their significant risk to human health and the environment. The list targets those sites to receive remedial funding under the *Comprehensive Environmental Response Conservation and Liability Act (CERCLA)*. The NPL lists the nation's highest priority sites for remedial action. Only NPL sites can receive CERCLA funding.

---

San Fernando Valley (Area 1) Los Angeles, Ranked #325 (July 1, 1986) 40 CFR Part 300 App. B

---

SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

---

## **SUPERFUND (LIENS)**

### **FEDERAL SUPERFUND LIENS**

The information contained in this report is the current database provided by the E.P.A. list as of January 1989.

Under the authority granted the E.P.A. by the *Comprehensive Environmental Response Conservation and Liability Act (CERCLA)*, E.P.A. is authorized to place a Superfund Lien on property that the agency has spent money on for remedial action or notified the owner of the potential of liability for remedial action.

---

*The NATEC database listing as of this date indicates no locations within a one mile radius of the subject property.*

---

SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

---

## **SWAT**

### **SOLID WASTE ASSESSMENT TEST PROGRAM**

The information in this report is the current database by the State Water Resource Control Board as of January 1989.

The State Water Resource Control Board under Section 13273 of the Water Code requires the (state board) to rank all solid waste disposal sites throughout the state on the basis of the potential threat they may pose to water quality. Sites are tested to see whether there is hazardous waste leakage from the site.

---

*The NATEC database listing as of this date indicates no locations within a one mile radius of the subject property.*

---



SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

---

**SWIS**

**SOLID WASTE INFORMATION SYSTEMS**

The information in this report is the current list prepared by the California Waste Management Board as of September 1989.

The California Waste Management Board maintains this list pursuant to the Solid Waste Management and Resource Recovery Act of 1972. The list contains an inventory of active, inactive, and closed solid waste disposal and transfer facilities.

---

*The NATEC database listing as of this date indicates no locations within a one mile radius of the subject property.*

---

SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

---

**RCRA**

**RESOURCE CONSERVATION AND RECOVERY ACT**

The information in this report is the current database provided by the E.P.A. as of May 1989.

Under the Resource Conservation and Recovery Act, the Environmental Protection Agency compiles this list classification of generators of hazardous waste materials. Generators in this classification are required to have U.S. E.P.A. I.D. numbers on all waste manifest disposal records.

---

**FACILITY DATA**

*Distance : 0.0 Miles East*  
*Facility ID: CAD070653068*  
*Facility Name: MERCURY CIRCUITS INC*  
*Facility St. 11423 VANOWEN ST UNIT 1*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.1 Miles North West*  
*Facility ID: CAD044058865*  
*Facility Name: PACIFIC STEEL TREATING CO INC*  
*Facility St. 6829 FARMDALE AVE*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.1 Miles East*  
*Facility ID: CAD094454329*  
*Facility Name: T & C CIRCUITS INC*  
*Facility St. 11417 VANOWEN ST*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.1 Miles North West*  
*Facility ID: CAD982474785*  
*Facility Name: R&B AIRCRAFT SUPPLY INC*  
*Facility St. 6848 FARMDALE AVE*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.1 Miles North West*  
*Facility ID: CAD009539776*  
*Facility Name: NOBUR CLEVELAND TWIST DRILL*  
*Facility St. 6860 FARMDALE AVE*  
*City and Zip: HOLLYWOOD 91605*

---

SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

---

**FACILITY DATA CONTINUED**

*Distance : 0.1 Miles West*  
*Facility ID: CAD043091032*  
*Facility Name: PACIFIC METAL STAMPINGS INC*  
*Facility St. 11489 VANOWEN ST*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.1 Miles North West*  
*Facility ID: CAD098602196*  
*Facility Name: CASA DE CHROME*  
*Facility St. 6868 FARMDALE AVE*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.1 Miles West*  
*Facility ID: CAD981579816*  
*Facility Name: SEMCO INSTRUMENTS INC*  
*Facility St. 11505 VANOWEN ST*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.2 Miles North West*  
*Facility ID: CAD008486870*  
*Facility Name: SUPERIOR THREAD ROLLING CO INC*  
*Facility St. 6926 FARMDALE AVE*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.2 Miles North East*  
*Facility ID: CAT080012636*  
*Facility Name: MCDONALD KENNETH DESIGNS*  
*Facility St. 6905 TUJUNGA AVE*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.2 Miles North West*  
*Facility ID: CAD091719450*  
*Facility Name: M LUBRICANTS INC*  
*Facility St. 6940 FARMDALE AVE*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.2 Miles North East*  
*Facility ID: CAD008484032*  
*Facility Name: LUCAS MACHINE CO*  
*Facility St. 11301 HARTLAND ST*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.2 Miles North East*  
*Facility ID: CAD981677453*  
*Facility Name: LAIDLAW TRANSIT*  
*Facility St. 6950 TUJUNGA AVE*  
*City and Zip: HOLLYWOOD 91605*

---

SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

---

**FACILITY DATA CONTINUED**

*Distance : 0.2 Miles North West*  
*Facility ID: CAD981445034*  
*Facility Name: FOREIGN AUTO ELECTRIC*  
*Facility St. 11466 HART*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.3 Miles North West*  
*Facility ID: CAD982041576*  
*Facility Name: KARSEAL CORP*  
*Facility St. 11552 HART ST*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.3 Miles North West*  
*Facility ID: CAD008384299*  
*Facility Name: BOBRICK CORP THE*  
*Facility St. 11611 HART ST*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.4 Miles North West*  
*Facility ID: CAD982042533*  
*Facility Name: APS INC A WICKES CO*  
*Facility St. 11651 HART ST*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.4 Miles East*  
*Facility ID: CAD082703554*  
*Facility Name: RELIABLE CO*  
*Facility St. 11151 VANOWEN ST*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.4 Miles North West*  
*Facility ID: CAD981994288*  
*Facility Name: ADVANCE TRANSMISSION*  
*Facility St. 6818 LANKERSHIM BLVD*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.4 Miles North West*  
*Facility ID: CAD097459291*  
*Facility Name: ECONO LUBE TUNE NO HOLLYWOOD*  
*Facility St. 6820 LANKERSHIM BL*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.4 Miles North West*  
*Facility ID: CAD981977747*  
*Facility Name: FASHION WHEELS INC*  
*Facility St. 6868 LANKERSHIM BL*  
*City and Zip: HOLLYWOOD 91605*

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

***Distance : 0.4 Miles East***

***Facility ID: CAD016869927***

***Facility Name: COMMODITY REFINING EXCHANGE INC***

***Facility St. 11131 C VANOWEN ST***

***City and Zip: HOLLYWOOD 91605***

***Distance : 0.4 Miles South West***

***Facility ID: CAD982321333***

***Facility Name: GARO'S FOREIGN AUTO***

***Facility St. 6708 LANKERSHIM BL***

***City and Zip: NORTH HOLLYWOOD 91606***

***Distance : 0.4 Miles South West***

***Facility ID: CAD982369316***

***Facility Name: ARMEN'S JAPANESE AUTO REPAIR***

***Facility St. 6719 LANKERSHIM BL***

***City and Zip: NORTH HOLLYWOOD 91606***

***Distance : 0.4 Miles South West***

***Facility ID: CAD982473126***

***Facility Name: UNITED AUTO CENTER***

***Facility St. 6719 LANKERSHIM BL***

***City and Zip: NORTH HOLLYWOOD 91606***

***Distance : 0.4 Miles North East***

***Facility ID: CAT000611095***

***Facility Name: GENERAL ELECTRIC CO***

***Facility St. 11115 VANOWEN ST***

***City and Zip: HOLLYWOOD 91605***

***Distance : 0.4 Miles South West***

***Facility ID: CAD982348724***

***Facility Name: INVASION INC***

***Facility St. 6709 LANKERSHIM***

***City and Zip: HOLLYWOOD 91606***

***Distance : 0.5 Miles South West***

***Facility ID: CAD981967037***

***Facility Name: TRANSMISSION HOUSE THE***

***Facility St. 6631 LANKERSHIM BL***

***City and Zip: HOLLYWOOD 91606***

***Distance : 0.5 Miles South East***

***Facility ID: CAD981625569***

***Facility Name: FAIR EL***

***Facility St. 6501 FAIR AVE***

***City and Zip: HOLLYWOOD 91606***

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

*Distance : 0.5 Miles North East*  
*Facility ID: CAT000646257*  
*Facility Name: FLIGHT ACCESSORY SERVS*  
*Facility St. 11310 SHERMAN WAY*  
*City and Zip: SUN VALLEY 91352*

*Distance : 0.5 Miles North East*  
*Facility ID: CAD008259368*  
*Facility Name: ALCO GRAVURE INC*  
*Facility St. 11041 VANOWEN*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.5 Miles North West*  
*Facility ID: CAD008325334*  
*Facility Name: BENDIX CORP*  
*Facility St. 11600 SHERMAN WAY*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.6 Miles North East*  
*Facility ID: CAD981625775*  
*Facility Name: LA USD SUN VALLEY GARAGE*  
*Facility St. 11247 SHERMAN WAY*  
*City and Zip: SUN VALLEY 91352*

*Distance : 0.6 Miles North East*  
*Facility ID: CAD099463747*  
*Facility Name: RADIANT ILLUMINATION INC*  
*Facility St. 7121 CASE AVE*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.6 Miles North East*  
*Facility ID: CAD982472227*  
*Facility Name: SDI INDUSTRIES*  
*Facility St. 6845 VINELAND AVE*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.6 Miles North East*  
*Facility ID: CAT080034119*  
*Facility Name: ROTO MASTERS INC*  
*Facility St. 11200 SHERMAN WAY*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.6 Miles North West*  
*Facility ID: CAD059804120*  
*Facility Name: PACIFIC ENGINE INC*  
*Facility St. 11803 VOSE ST*  
*City and Zip: HOLLYWOOD 91605*

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

*Distance : 0.6 Miles North East*

*Facility ID: CAD982410086*

*Facility Name: CALIFORNIA WEST LITHOGRAPHERS*

*Facility St. 11130 SHERMAN WAY*

*City and Zip: SUN VALLEY 91352*

*Distance : 0.6 Miles North East*

*Facility ID: CAD062064746*

*Facility Name: FLAMEMASTER CORP*

*Facility St. 11120 SHERMAN WAY*

*City and Zip: SUN VALLEY 91352*

*Distance : 0.6 Miles North West*

*Facility ID: CAD981987035*

*Facility Name: LA PUMPING PLANT #17*

*Facility St. 7140 LANKERSHEIM BLVD*

*City and Zip: LOS ANGELES 90068*

*Distance : 0.7 Miles South East*

*Facility ID: CAD000627265*

*Facility Name: TESORO GASOLINE DIV GAS HOLLYWOOD*

*Facility St. 11051 VICTORY BL*

*City and Zip: HOLLYWOOD 91606*

*Distance : 0.7 Miles North East*

*Facility ID: CAD981387988*

*Facility Name: COLUMBIA SHOWCASE*

*Facility St. 11034 SHERMAN WAY*

*City and Zip: SUN VALLEY 91352*

*Distance : 0.7 Miles North East*

*Facility ID: CAD981688674*

*Facility Name: CHILDS & ALBERT INC*

*Facility St. 11030 SHERMAN WAY*

*City and Zip: SUN VALLEY 91352*

*Distance : 0.8 Miles North West*

*Facility ID: CAD982345050*

*Facility Name: HOLLYWOOD MANUFACTURING INC*

*Facility St. 11915 VOSE ST*

*City and Zip: HOLLYWOOD 91605*

*Distance : 0.8 Miles North West*

*Facility ID: CAD009652819*

*Facility Name: VALLEY FRICTION MATERIALS*

*Facility St. 11817 SHERMAN WAY*

*City and Zip: HOLLYWOOD 91605*

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

*Distance : 0.8 Miles North West*  
*Facility ID: CAD982039885*  
*Facility Name: BEVERLY HILLS TRANSFER & STG*  
*Facility St. 7335 LANKERSHIM BL*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.8 Miles North West*  
*Facility ID: CAD981390578*  
*Facility Name: STUART DEAN OF CALIF INC*  
*Facility St. 11823 SHERMAN WAY*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.8 Miles North West*  
*Facility ID: CAD981625924*  
*Facility Name: LA USD CAMELLIA ELEM*  
*Facility St. 7451 CAMELLIA AVE*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.9 Miles North West*  
*Facility ID: CAD982407389*  
*Facility Name: PM SCREW*  
*Facility St. 12027 VOSE ST UNIT 12*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.9 Miles North West*  
*Facility ID: CAD981987837*  
*Facility Name: LA STORM WATER PUMPING PLANT #19*  
*Facility St. 11953 SHERMAN WAY*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.9 Miles North West*  
*Facility ID: CAD981993769*  
*Facility Name: PANKAJ INTERNATIONAL INC*  
*Facility St. 7346 RADFORD AVE*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 0.9 Miles North West*  
*Facility ID: CAD981584022*  
*Facility Name: TRIMM INDUSTRIES INC*  
*Facility St. 11939 SHERMAN RD*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 1.0 Miles North West*  
*Facility ID: CAD981576952*  
*Facility Name: J SCHWARTZMAN MFG & SUPPLY CO*  
*Facility St. 7040 LAUREL CANYON BL*  
*City and Zip: HOLLYWOOD 91615*

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

*Distance : 1.0 Miles North West*  
*Facility ID: CAD037030533*  
*Facility Name: ELECTROMATIC INC*  
*Facility St. 7351 RADFORD AVE*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 1.0 Miles North West*  
*Facility ID: CAD982417032*  
*Facility Name: SWEDISH AUTO SVC*  
*Facility St. 7019 LAUREL CANYON BL*  
*City and Zip: HOLLYWOOD 91605*

*Distance : 1.0 Miles South West*  
*Facility ID: CAD982037145*  
*Facility Name: PHOTO CITY*  
*Facility St. 6525 LAUREL CANYON*  
*City and Zip: HOLLYWOOD 91606*

*Distance : 1.0 Miles South West*  
*Facility ID: CAD982373193*  
*Facility Name: TOWNSGATE INVESTMENTS FILLMORE*  
*Facility St. 6031 LANKERSHIM BL*  
*City and Zip: NORTH HOLLYWOOD 91606*

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## LUST

### LEAKING UNDERGROUND STORAGE TANKS

The information in this report is the current list prepared by the California Waste Resources Control Board as of November 1989.

The State of California Water Resources Control Board (WRCB) in Sacramento provides a list of all leaks of hazardous substances from underground tanks. This database provides information on contamination case types. Additional sources of information are provided by the nine local offices of the WRCB in California.

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#### FACILITY DATA

*Distance : 0.4 Miles South West*  
**SITE: THRIFTY STATION #016**  
**ADDRESS: 6800 LANKERSHIM BLVD**  
**CITY: NORTH HOLLYWOOD**  
**SOURCE: UNASSIGNED**  
**STATUS: SITE INVESTIGATION IN PROGRESS**  
**CASE TYPE: GROUND WATER HAS BEEN AFFECTED.**  
**CONTAMINANT: TANK LEAK [GASOLINE]**

*Distance : 0.5 Miles North East*  
**SITE: ALCO GRAVURE INCORPORATED**  
**ADDRESS: 11041 VANOWEN STREET**  
**CITY: NORTH HOLLYWOOD**  
**SOURCE: REGIONAL BOARD LEAD**  
**STATUS: SIGNED OFF**  
**CASE TYPE: THE TYPE OF RESOURCES AFFECTED OR EXTENT OF**  
**THE RESOURCES AFFECTED ARE NOT KNOWN.**

*Distance : 0.5 Miles North West*  
**SITE: BENDIX CORPORATION**  
**ADDRESS: 11600 SHERMAN WAY**  
**CITY: NORTH HOLLYWOOD**  
**SOURCE: REGIONAL BOARD LEAD**  
**STATUS: REMEDIAL ACTION [CLEANUP] IN PROGRESS.**  
**CASE TYPE: ONLY SOIL HAS BEEN AFFECTED.**  
**CONTAMINANT: TANK LEAK [SOLVENTS]**

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

*Distance : 0.7 Miles North East*

**SITE: SUN VALLEY JUNIOR HIGH SCHOOL**

**ADDRESS: 7330 BAKMAN AVENUE**

**CITY: SUN VALLEY, 91352**

**SOURCE: UNASSIGNED**

**STATUS: SITE INVESTIGATION IN PROGRESS**

**CASE TYPE: GROUND WATER CONTAMINATION**

*Distance : 0.9 Miles North West*

**SITE: FORTIN INDUSTRIES, INC.**

**ADDRESS: 11921 SHERMAN WAY**

**CITY: NORTH HOLLYWOOD**

**SOURCE: REGIONAL BOARD LEAD**

**STATUS: SIGNED OFF**

**CASE TYPE: THE TYPE OF RESOURCES AFFECTED OR EXTENT OF THE  
RESOURCES AFFECTED ARE NOT KNOWN.**

**CONTAMINANT: TANK LEAK [WASTE OIL]**

*Distance : 1.0 Miles South West*

**SITE: WILLIES AUTO SERVICE**

**ADDRESS: 6031 LANKERSHIM BLVD**

**CITY: NORTH HOLLYWOOD**

**SOURCE: REGIONAL BOARD LEAD**

**STATUS: SIGNED OFF**

**CASE TYPE: ONLY SOIL HAS BEEN AFFECTED.**

**CONTAMINANT: TANK LEAK [MISC. MVF]**

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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## CORTESE

### STATE OF CALIFORNIA OFFICE OF PLANNING AND RESEARCH

The information contained in this report is compiled by the State of California's Governors Office and is current as of June 1989.

This is a listing of potential and confirmed hazardous waste and substance sites throughout California. The information in this list was consolidated within the State Office of Planning and Research. The data for the list was received from the State Water Resources Control Board (WRCB), The California Waste Management Board (CWMB), and the Department of Health Services (DHS).

DHS: Records that have been compiled by the Toxic Substances Control Division of the Department of Health Services. This code indicates an abandoned hazardous waste site.

DHS2: Records that have been compiled by the Environmental Health Division of the Department of Health Services. This code indicates public water drinking wells that serve less than 200 connections ("small wells").

DHS3: Records that have been compiled by the Environmental Health Division of the Department of Health Services and consist of public water drinking wells that serve more than 200 connections ("large wells").

DHS5: Sites pursuant to Section 25356 of the Health and Safety Codes (sites included under the Hazardous Substance Cleanup Bond Act).

WRCB: Records compiled by the Water Resources Control Board. These are sites of reported leaks that have been investigated by the WRCB. Leak sites do not necessarily lie within incorporated boundaries of listed cities.

CWMB: Records compiled by the California Waste Management Board. These are solid waste disposal facilities from which there is a known migration of hazardous waste.

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### FACILITY DATA

*Distance : 0.4 Miles South West*  
*Source: WRCB      Problem: TANK LEAK*  
*Site Name:    THRIFTY STATION #016*  
*Location:    6800 LANKERSHIM BL*  
*City and Zip: NORTH HOLLYWOOD 91600*

*Distance : 0.5 Miles North West*  
*Source: WRCB      Problem: TANK LEAK*  
*Site Name:    BENDIX CORPORATION*  
*Location:    11600 SHERMAN WAY*  
*City and Zip: NORTH HOLLYWOOD 91605*

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

***Distance : 0.7 Miles North East***

***Source: WRCB      Problem: TANK LEAK***

***Site Name:    SUN VALLEY JUNIOR HIGH SCHOOL***

***Location:    7330 BAKMAN AV***

***City and Zip: SUN VALLEY 91352***

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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## **TANNER REPORTS**

### **HAZARDOUS WASTE SITES AND GENERATORS**

The information in this report is the current list prepared by DOHS/Toxic Substance Control Division as of June 1989.

Tanner legislation (AB2948) requires all counties to prepare and submit hazardous waste management plans. Sites with a Tanner listing are required to have an E.P.A. I.D. number as a hazardous waste generator or disposal site. Generation and disposal data is maintained for the counties by the Toxic Substance Control Division of the California Department of Health Services.

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#### **FACILITY DATA**

*Distance : 0.1 Miles West*  
*EPA Number: CAD088382734-*  
*Facility Name: ASEPTIC THERMO INDICATOR*  
*Facility St. 11471 VANOWEN*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 0.1 Miles North West*  
*EPA Number: CAD044058865-*  
*Facility Name: PACIFIC STEEL TREATING CO INC*  
*Facility St. 6829 FARMDALE AVE*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 0.1 Miles South West*  
*EPA Number: CAD000325159-*  
*Facility Name: IX LOU NATHANSON*  
*Facility St. 11470 VANOWEN STREET*  
*City and Zip: NO HOLLYWOOD 91605*

*Distance : 0.1 Miles North West*  
*EPA Number: CAD009539776-*  
*Facility Name: ALLISON MANUFACTURING CORP*  
*Facility St. 6860 FARMDALE AV*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 0.1 Miles West*  
*EPA Number: CAD043091032-*  
*Facility Name: PACIFIC METAL STAMPINGS INC*  
*Facility St. 11489 VANOWEN ST*  
*City and Zip: N HOLLYWOOD 91605*

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

*Distance : 0.1 Miles North West*  
*EPA Number: CAD098602196-*  
*Facility Name: CASA DE CHROME*  
*Facility St. 6868 FARMDALE AVE.*  
*City and Zip: NO. HOLLYWOOD 91605*

*Distance : 0.1 Miles West*  
*EPA Number: CAD981579816-*  
*Facility Name: SEMCO INSTRUMENTS INC*  
*Facility St. 11505 VANOWEN ST*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 0.2 Miles North East*  
*EPA Number: CAT080012636-*  
*Facility Name: MCDONALD KENNETH DESIGNS*  
*Facility St. 6905 TUJUNGA AVENUE*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.2 Miles North West*  
*EPA Number: CAD091719450-*  
*Facility Name: E-M LUBRICANTS INC*  
*Facility St. 6940 FARMDALE AVE*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.2 Miles North East*  
*EPA Number: CAD981695737-*  
*Facility Name: IX WALT DISNEY IMAGINEERING*  
*Facility St. 6904 TUJUNGA AVE*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.3 Miles South West*  
*EPA Number: CAD982017063-*  
*Facility Name: DAVID MICHAELS*  
*Facility St. 6659 IRVINE*  
*City and Zip: NO HOLLYWOOD 91606*

*Distance : 0.4 Miles South West*  
*EPA Number: CAC000040873-*  
*Facility Name: CIRCLE K STORE #40873*  
*Facility St. 6800 LANKERSHIM*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.4 Miles North West*  
*EPA Number: CAD981994288-*  
*Facility Name: ADVANCE TRANSMISSION*  
*Facility St. 6818 LANKERSHIM BL*  
*City and Zip: N HOLLYWOOD 91605*

---

SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

*Distance : 0.6 Miles North East*  
*EPA Number: CAD981625775-*  
*Facility Name: LA USD SUN VALLEY GARAGE*  
*Facility St. 11247 SHERMAN WY*  
*City and Zip: SUN VALLEY 91352*

*Distance : 0.7 Miles South West*  
*EPA Number: CAD981372188-*  
*Facility Name: PACIFIC RADIATOR*  
*Facility St. 6331 COLFAX AVE*  
*City and Zip: N HOLLYWOOD 91606*

*Distance : 0.7 Miles North East*  
*EPA Number: CAX000206466-*  
*Facility Name: COLUMBIA SHOWCASE*  
*Facility St. 11034 SHERMAN WAY*  
*City and Zip: SUN VALLEY 91352*

*Distance : 0.8 Miles North East*  
*EPA Number: CAD981409063-*  
*Facility Name: BEST AUTO PAINTING*  
*Facility St. 11027 SHERMAN WAY*  
*City and Zip: SUN VALLEY 91352*

*Distance : 0.8 Miles North West*  
*EPA Number: CAD981655434-*  
*Facility Name: PRODUCT DEVELOPMENT SVC*  
*Facility St. 7309 LANKERSHIM BLVD*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 0.8 Miles North West*  
*EPA Number: CAD981663792-*  
*Facility Name: MODERN-AIRE MFG CORP*  
*Facility St. 7319 LANKERSHIM BLVD*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.8 Miles North West*  
*EPA Number: CAX000222265-*  
*Facility Name: MERCURY AEROSPACE FASTENERS*  
*Facility St. 11800 SHERMAN WAY*  
*City and Zip: NO HOLLYWOOD 91605*

*Distance : 0.8 Miles South East*  
*EPA Number: CAC000037366-1X*  
*Facility Name: EXXON CORP USA #73240*  
*Facility St. 11000 VICTORY*  
*City and Zip: N HOLLYWOOD 91606*

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

*Distance : 0.4 Miles North West*  
*EPA Number: CAD981977747-*  
*Facility Name: FASHION WHEELS INC*  
*Facility St. 6868 LANKERSHIM BL*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 0.4 Miles North East*  
*EPA Number: CAT000611095-*  
*Facility Name: GENERAL ELECTRIC CO*  
*Facility St. 11115 VANOWEN ST*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.4 Miles North West*  
*EPA Number: CAD981372006-*  
*Facility Name: CARCOA AUTO PAINTING #11*  
*Facility St. 6925 LANKERSHIM BLVD.*  
*City and Zip: N. HOLLYWOOD 91605*

*Distance : 0.5 Miles North East*  
*EPA Number: CAD981171515-*  
*Facility Name: BARRY CONTROLS*  
*Facility St. 11150 GAULT ST*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 0.5 Miles North East*  
*EPA Number: CAT000646257-*  
*Facility Name: FLIGHT ACCESSORY SERVICES*  
*Facility St. 11310 SHERMAN WAY*  
*City and Zip: SUN VALLEY 91352*

*Distance : 0.5 Miles North East*  
*EPA Number: CAD008259368-*  
*Facility Name: ALCO-GRAVURE INC*  
*Facility St. 11041 VANOWEN*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 0.5 Miles North West*  
*EPA Number: CAD008325334-*  
*Facility Name: BENDIX CORP*  
*Facility St. 11600 SHERMAN WAY*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 0.6 Miles North East*  
*EPA Number: CAC000041962-*  
*Facility Name: IX LAURA SCUDDERS INC*  
*Facility St. 11258 SHERMAN WAY*  
*City and Zip: SUN VALLEY 91352*

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**FACILITY DATA CONTINUED**

*Distance : 0.8 Miles North West*  
*EPA Number: CAD981390578-*  
*Facility Name: STUART-DEAN OF CALIF, INC*  
*Facility St. 11823 SHERMAN WAY*  
*City and Zip: NO HOLLYWOOD 91605*

*Distance : 0.8 Miles North West*  
*EPA Number: CAX000084061-*  
*Facility Name: FORTIN INDUSTRIES INC*  
*Facility St. 11921 SHERMAN WAY*  
*City and Zip: NORTH HOLLYWOOD*

*Distance : 0.9 Miles South West*  
*EPA Number: CAD981966583-*  
*Facility Name: LAKERSHIM AUTO CENTER*  
*Facility St. 6137 LANKERSHIM BL*  
*City and Zip: N HOLLYWOOD 91606*

*Distance : 0.9 Miles North West*  
*EPA Number: CAD022101885-*  
*Facility Name: F AND H PLATING CO*  
*Facility St. 12023 VOSE ST*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.9 Miles North West*  
*EPA Number: CAD981584022-*  
*Facility Name: TRIMM INDUSTRIES INC*  
*Facility St. 11939 SHERMAN RD*  
*City and Zip: NORTH HOLLYWOOD 91605*

*Distance : 0.9 Miles North West*  
*EPA Number: CAD981993769-*  
*Facility Name: PANKAJ INTERNATIONAL INC*  
*Facility St. 7346 RADFORD AVE*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 1.0 Miles North West*  
*EPA Number: CAD981576952-*  
*Facility Name: J SCHWARTZMAN MFG & SUPPLY CO*  
*Facility St. 7040 LAUREL CANYON BL*  
*City and Zip: N HOLLYWOOD 91605*

*Distance : 1.0 Miles North West*  
*EPA Number: CAD037030533-*  
*Facility Name: ELECTROMATIC INC*  
*Facility St. 7351 RADFORD AVE*  
*City and Zip: N HOLLYWOOD 91605*

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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**FACILITY DATA CONTINUED**

***SITE: 1X WALT DISNEY IMAGINEERING  
LOCATION: 6904 TUIJUNGA AVE  
CITY: NORTH HOLLYWOOD***

***SITE: ALL AMERICAN PLATING CORP  
LOCATION: 7129 VINELAND AVE  
CITY AND ZIP: N JOLLYWOOD 91605***

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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## **BEP**

### **BOND EXPENDITURE PLAN**

The information in this report is the current list prepared by the California Department of Health Services as of January 1989.

Under the California Hazardous Substance Bond Act of 1984, the California Department of Health Services has developed a listing of those hazardous waste sites subject to develop a site specific expenditure plan for an appropriation of funds for cleanup under the Bond Expenditure Plan.

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*The NATEC database listing as of this date indicates no locations within a one mile radius of the subject property.*

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SUBJECT PROPERTY:

11447 VANOWEN ST  
NORTH HOLLYWOOD

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## ASPIS

### ABANDONED SITES PROGRAM INFORMATION SYSTEM

The information contained in this report is the current database provided by the California Department of Health Services (CDHS) as of October 1989.

The CDHS compiled this database pursuant to Section 253596 of the California Health and Safety Code. The list contains information on potential hazardous waste sites that have been identified by the Historical Abandoned Site Survey Program. The CDHS researched a major portion of the various state environmental agencies that could possibly help identify potential hazardous waste sites. Once sites are confirmed as hazardous sites they may be merged into the database of the Cortese List and/or the Bond Expenditure Program (BEP) List. Names may remain on this list even though a determination has been made that no leak had occurred and the DHS is requiring no further action to protect the environment or public health.

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### FACILITY DATA

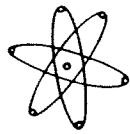
*Distance : 0.5 Miles North East*  
*Facility No. 19-37-0159*  
*Facility Name: CIRCLE WELD CO INC*  
*Facility St. 11310 SHERMAN WAY*  
*City and Zip: SUN VALLEY 91352*  
*STATUS: No Furthur Action*

*Distance : 0.6 Miles North East*  
*Facility No. 19-28-0580*  
*Facility Name: FLAMEMASTER CORP*  
*Facility St. 11120 SHERMAN WAY*  
*City and Zip: SUN VALLEY 91352*  
*STATUS: No Furthur Action*

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## **APPENDIX (E)**

### **Environmental Audit Pre-Visit Questionnaire**



*Carberry And Associates*

18333 WEST DOLAN WAY, SUITE 209  
Canyon Country  
California 91351

## ENVIRONMENTAL AUDIT PRE-VISIT QUESTIONNAIRE

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1. **Age of the facility and brief history with regard to the type of past operations conducted on-site:**

*To the best of our knowledge, the property was purchased in 1952. Prior to 1952, it was residential.*

2. **Describe briefly the current operations on-site and the nature of hazardous materials used in the processes. (Provide copies of Material Safety Data Sheets (MSDS) or similar technical specifications describing components and hazards of the material used):**

*Machine Shop; grinding, cutting, degreasing and de-burring. Machine shop uses cutting oil (petroleum base) and coolant (water soluble). The vapor degreaser uses 1,1,1-trichloroethane, in the past it used freon-TF and methylene chloride.*

3. **Briefly describe any on-site or off-site collection/accumulation and storage practices for hazardous waste materials:**

*Separate storage areas for machine cuttings, products and waste.*

- **Are there any drum storage areas? If so, please generally describe the storage area(s), i.e. drainage, fencing, surface material, etc:**

*Three separate areas are used to store drums. One area in the back of the facility is used to store new drummed oil, the area is covered with a roof but not bermmed. The second area in the back of the facility is used to store new bulk oil and waste oil. New drums of coolant for the screw machines are stored in the building.*

- **Are there lagoons or surface impoundments? If so, please describe size, location and material contained:**

*No lagoons are on-site; however there is an area in back of the facility that collects water after a rain or wash down.*

- **How long is hazardous material stored on your premises before removal to a disposal site or reclamation facility?**

*Less than 90 days.*

- 4. Have there been any spills or releases of hazardous materials on-site in the recent past (5 years)? If so, please provide details:**

*10 gallons of cutting oil was spilled in the machine shop but it was immediately cleaned up with oil absorb.*

- 5. Are there any visible areas of potential contamination i.e. oil or liquid saturated areas, stressed vegetation, etc?**

*Yes! the machine cuttings storage area and the new/waste oil storage area.*

- 6. Describe the method of disposal for hazardous materials and oils:**

- **Is a shipping manifest utilized?**

*Yes.*



- Are there any hazardous waste materials generated from current or past processes that are restricted to approved waste sites, treatment facilities, etc?

No.

- Provide all Uniform Hazardous Waste Manifest for the current year:

Yes.

7. Has there ever been an environmental audit conducted at this facility by a specialist? If so, please include a copy of the report:

No.

8. Do any of the existing operations discharge effluent (liquid) to city sewers, brooks, streams, or underground septic systems? If so, please describe the nature of the materials discharged and any pretreatment conducted before discharge:

*Yes! the degreaser discharges once-through cooling water and the deburring machine discharges water through a clarifier to the sewer.*

9. Have there ever been any accidental discharges of hazardous materials to any of the above receptors of a reportable quantity?

No.

10. Briefly describe the type of exhaust or discharge of fumes, vapors or other emissions to the air from your industrial processes. Indicate the type of material used in the operations and include an MSDS or other technical specification sheet describing the components and the hazards of the material:

*Two screw manufacturing machines utilize a spray mists which is exhausted to the atmosphere via an overhead hood.*

11. Have any of the above mentioned air emissions been tested to determine compliance with local regulation. If so, please indicate the results of the testing:

*No.*

12. Summarize any precautions or control equipment in place to ensure compliance with all applicable state and federal standards, i.e. filters, thermal oxidizer, material substitution, etc:

*Filters are installed on the exhaust for spray mists.*

13. Describe the neighborhoods immediately adjacent to the plant, e.g. residential, industrial park, undeveloped, etc:

*Junk yard to the north, machine shop and heat treating company to the west and an extension of Fleetwood Machine Products, Inc. to the east.*

14. Are there any hazardous materials (waste or virgin materials) stored in above ground or underground storage tanks on your property:

*Three above-ground storage tanks.*

- Indicate the materials contained in these tanks (provide an MSDS or other technical specification identifying the components and the hazards of the materials:

*Cutting oil and waste cutting oil.*

- Indicate the size and age of the tanks:

*One 500 gallon tank for new oil and two each 250 gallon tanks for waste cutting oil.*

- **Are there any secondary containment devices encompassing above ground tanks, e.g. walls or barrier designed to contain a rupture or spill of the tank?**

*Yes! however, the wall does not completely encompass the area*

- **List any precautions you take to ensure there is no leakage of hazardous materials; i.e. tank inspections, pressure tests, etc:**

*Inspection, and lock dispensing valve on the new oil storage tank when not in use.*

- **Have there ever been any underground or above ground hazardous material storage tanks removed from this facility. If so, please attach the results of any subsurface soil testing, permits, and disposal records:**

*Yes! there is a 55 gallon drum buried half way underground.*

- 15. List the nature and number of each environmental permits issued including but not limited to: hazardous waste generator permits, industrial waste discharge permits, exhaust venting, etc:**

*EPA ID number will be provided with the hazardous waste manifest.*

- 16. List the name and address of each disposal site and transporter used to dispose of hazardous and industrial waste:**

*Asbury Oil.*

- 17. List/describe all previously discontinued operations and the materials used, i.e. chrome plating, heat treating, etc:**

*None.*

18. Have there been any state or federal environmental inspections of this site within the last five years? List the results. Are there any settlement agreements or administrative orders outstanding?

*City of L.A. takes the pH of water in clarifier.*

19. To your knowledge are there any businesses in the immediate area which have environmental problems or on-site pollution?

*No.*

20. Does the building contain asbestos insulation or other asbestos building materials?

*Not to our knowledge.*

21. Is there any treatment of hazardous waste on-site including but not limited to: pH adjustments, reduction, settling, wastewater pre-treatment, etc.?

*Removal of oil from machine cuttings with a centrifuge.*

22. Do any of the electrical transformers on-site contain PCB's?

*No.*

***Answers provided by:***

*Mr. William Cooke, President*

*Mr. Ralph Felex, General Manager*

